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Db      783  CCAGCCCTCTCTTTCACTGTTCCATCTCTGACGTGACACACAGCTAAGAGCCTCA 842
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```

```

RESULT 6
LOCUS   BC000407
DEFINITION
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  IMAGE:2823026), complete cds.
ACCESSION
  BC000407
VERSION
  BC000407.2 GI:38197476
KEYWORDS
  MGC.
SOURCE
  Homo sapiens (human)
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
  1 (bases 1 to 1708)
  Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G.,
  Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,
  Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
  Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Heide,F.,
  Dietzenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
  Stempleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
  Scrimgeour,T.E., Prange,C., Raha,S.S., Loguella,N.A., Peters,G.J.,
  Abramson,K.D., Mullany,S.J., Bosak,S.A., McGowan,P.J.,
  McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S.,
  Worsley,K.C., Hale,S., Garcia,A.M., Gay,L.D., Hult,S.W.,
  Villalón,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A.,
  Fahey,J., Helton,E., Kettelman,M., Madan,A., Rodriguez,S.,

```

Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y.,
Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D.,
Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,U., Myers,R.M.,
Butterfield,Y.S., Krzywicki,M.I., Skalska,U., Smailus,D.E.,
Schnerich,A., Schein,J.B., Jones,S.O., and Martha,M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

2 (bases 1 to 1708)
Strausberg,R.
Direct Submission
Submitted (15-NOV-2000) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2550,
USA

NIH-MGC Project URL: <http://mgc.nci.nih.gov>
On Nov 6, 2003 this sequence version replaced gi:12653276.
Contact: MGC help desk
Email: cgapsb-remail.nih.gov
Tissue Procurement: DCTD/DTF
cDNA Library Preparation: Rubin Laboratory
DNA Sequencing by: The I.M.A.G.E. Consortium (LNL)
Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: <http://www.nisc.nih.gov/>
Contact: nisc.mgc@hgrl.nih.gov
Ahter,N., Ayele,K., Beckstrom-Stenberg,S.M., Benjamin,B.,
Blakesley,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,
Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
Hansen,N., Ho,S.-U., Karlins,E., Kwong,P., Latic,P., Legaspi,R.,
Maduro,Q.L., Nasello,C., Maskeri,B., Mastrian,S.D., McCloskey,J.C.,
McDowell,J., Pearson,R., Stantrop,S., Thomas,P.J., Touchman,J.W.,
Tsurgren,C., Vogt,J.L., Walker,M.A., Wetherby,K.D., Wiggins,L.,
Young,A., Zhang,L.-H. and Green,E.D.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/BLN at: <http://image.llnl.gov>
Series: IRM Plate: 1 Row: K Column: 10
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 22091455.
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67..322
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domain-containing proteins are often found in
lipid-associating proteins - such as Occludin and MAL
family proteins. It may be part of the machinery of

misc_feature

CDS

gene

Db 85 CGCGGCGACGGCGCGGCGACGCGGCGATGAGAGCGGGGCTTACGGCGCGCCGCAAGCGG 144
QY 86 CGGCTCTTGCACCTGCGGCGCTTCTCTGACGACAGCCGCAAGTGGTGGCGCGCCGCTG 145
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Db 265 CGAGCTTAAAGACATGTAAGTCTGTTTCAACCGCAAGAGATCTGCGGCTATGCGAG 324
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RESULT 2

US-09-227-357-83

Sequence 83, Application US/09227357

Patent No. 6342581

GENERAL INFORMATION:

APPLICANT: Fischer et al.

TITLE OF INVENTION: 123 Human Secreted Proteins

FILE REFERENCE: P2010P1

CURRENT APPLICATION NUMBER: US/09/227,357

EARLIER FILING DATE: 1999-01-08

EARLIER APPLICATION NUMBER: PCT/US98/13684

EARLIER FILING DATE: 1998-07-07

EARLIER APPLICATION NUMBER: 60/051,925

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,793
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,925
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EARLIER APPLICATION NUMBER: 60/051,918
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,920
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EARLIER APPLICATION NUMBER: 60/055,954
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/058,785
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ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (664)
OTHER INFORMATION: n equals a,t,g, or c
FEATURE:

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 7, 2004, 11:55:09 / Search time 23 Seconds

(without alignments)
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Title: US-10-020-445A-162

Perfect score: 1191

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Scoring table:

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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

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RESULT 1
US-08-700-637-2
Sequence 2, Application US/08700637
Patent No. 5854413
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Stuart, Susan G.
TITLE OF INVENTION: NOVEL SYNAPTOGRIN HOMOLOG FROM COLON
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESS: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,637
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0065 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 224 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: COLN00705
CLONE: 775426
US-08-700-637-2
Query Match 99.5%; Score 1185; DB 2; Length 224;
Best Local Similarity 99.6%; Pred. No. 3.3e-125;
Matches 223; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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RESULT 2

US-08-700-637-3
Sequence 3, Application US/08700637
Patent No. 5854413
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Stuart, Susan G.
APPLICANT: Murray, Lynn E.
TITLE OF INVENTION: NOVEL SYNAPTOGYRIN HOMOLOG FROM COLON
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,637
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara C.
REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0065 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0135
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 231 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: Genbank
CLONE: GI 1072118
US-08-700-637-3

Query Match 46.9%; Score 558; DB 2; Length 231;
Best Local Similarity 49.4%; Pred. No. 1,3e-54;
Matches 114; Conservative 29; Mismatches 72; Indels 16; Gaps 6;

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Db 1 MESSAGYAKAGSGFDLRRFLTOPVAVARACLVFALIVFSICVGRGYNASHESKOMYCV 60
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Db 178 FNNRBDACRGSAIGVLAFLASAFVVDVYPPQISNATDRKXLYTGDLFLSALMTFLWF 227

RESULT 3

US-09-227-357-512
Sequence 512, Application US/09227357
Patent No. 6342581
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P201021
CURRENT APPLICATION NUMBER: US/09/227,357
CURRENT FILING DATE: 1999-01-08
EARLIER APPLICATION NUMBER: PCT/US98/13684
EARLIER FILING DATE: 1998-07-07
EARLIER APPLICATION NUMBER: 60/051,926
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,793
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EARLIER FILING DATE: 1997-08-18
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EARLIER APPLICATION NUMBER: 60/055,950
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,947
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,964
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/056,360
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,684
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,984
EARLIER FILING DATE: 1997-08-18

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OM protein - protein search, using sw model

Run on: April 7, 2004, 11:50:34 ; Search time 18 Seconds

(without alignments)
647.984 Million cell updates/sec

Title: US-10-020-445a-162

Sequence: 1 MEGAYGAAKAGSGFLRRP.....QPPFQNAETTEGYQPPYV 224

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database: SwissProt 42.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1191	100.0	224	1 SNG2_HUMAN	043760 homo sapien
2	1066	89.5	224	1 SNG2_MOUSE	055101 mus musculu
3	1055	88.6	224	1 SNG2_RAT	054880 rattus norv
4	576.5	48.4	224	1 SNG3_HUMAN	043759 homo sapien
5	576.5	48.4	224	1 SNG3_MOUSE	055100 mus musculu
6	575.5	48.3	224	1 SNG3_RAT	062810 rattus norv
7	492	41.3	224	1 SNG3_HUMAN	043761 homo sapien
8	329.5	27.7	224	1 SNG3_HUMAN	095473 homo sapien
9	257	21.6	224	1 SNG3_MOUSE	076735 caenorhabd
10	150	12.6	223	1 SNG4_MOUSE	092112 mus musculu
11	103	8.6	265	1 SYN2_HUMAN	081599 homo sapien
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13	99	8.3	265	1 SYN2_RAT	081599 homo sapien
14	94.5	7.9	313	1 SYN2_BOVIN	081599 homo sapien
15	87	7.3	313	1 SYN2_MOUSE	081599 homo sapien
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23	80.5	6.8	313	1 SYN2_MOUSE	081599 homo sapien
24	80	6.7	313	1 SYN2_MOUSE	081599 homo sapien
25	80	6.7	313	1 SYN2_MOUSE	081599 homo sapien
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27	79.5	6.7	313	1 SYN2_MOUSE	081599 homo sapien
28	79	6.6	313	1 SYN2_MOUSE	081599 homo sapien
29	79	6.6	313	1 SYN2_MOUSE	081599 homo sapien
30	79	6.6	313	1 SYN2_MOUSE	081599 homo sapien
31	78.5	6.6	313	1 SYN2_MOUSE	081599 homo sapien
32	78.5	6.6	313	1 SYN2_MOUSE	081599 homo sapien
33	78.5	6.6	313	1 SYN2_MOUSE	081599 homo sapien

34	77.5	6.5	282	1 UPK_MYCLE	Q06042 mycobacteri
35	77.5	6.5	452	1 YEF_ECOLI	P31016 escherichia
36	77.5	6.5	706	1 YAE_A_SCHPO	Q09850 schizosach
37	77.5	6.5	1002	1 S123_MOUSE	P5158 mus musculu
38	77	6.5	281	1 UPK_CORST	Q9158 corynebacte
39	77	6.5	367	1 CYB_AUSSU	Q0113 austrelaps
40	76.5	6.4	313	1 SYN2_HUMAN	P08247 homo sapien
41	76.5	6.4	1002	1 S123_RAT	P55018 rattus norv
42	76	6.4	2193	1 POLG_CX16T	Q94131 c genome po
43	75.5	6.3	294	1 RARD_SALTY	Q823b1 salmoneila
44	75.5	6.3	294	1 RARD_SALTY	Q916p1 salmoneila
45	75	6.3	309	1 YD22_YEAST	Q07651 saccharomyc

ALIGNMENTS

RESULT 1
ID SNG2_HUMAN STANDARD: PRT: 224 AA.
AC 043760: 043762;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Synaplogyrin 2 (Cellulysin).
GN SYNCR2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euteria; Primates; Carnivora; Hominoidea; Homo.
OX NCBI_TaxID=9606;
RX MEDLINE=98430994; PubMed=9760194;
RA Kedar D., Pan H.-Q., Seroussi E., Fransson I., Guilbud C.,
RA Collins J.E., Dunham I., Blomqvist E., Roe B.A., Pfehl F.,
RA Dumanowski J.P.;
RL "Characterization of the human synaplogyrin gene family";
RL Hum. Genet. 103:131-141 (1998).
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SEQUENCE FROM N.A.
RC Tissue: lung, and lymph;
RC MEDLINE=22386257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Ditschke L., Marusik K., Farmer A.A., Rubin G.M., Hong L.,
RA Stepien M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein W.J., Utter L.B., Tosnyuk S., Carninci P., Prange C.,
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mulhally S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko I., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butcherfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences".
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- TISSUE SPECIFICITY: Ubiquitous; low expression in brain.
CC -!- SIMILARITY: Belongs to the synaplogyrin family.
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DR EMBL; AJ002308; CAA05325.1; -
DR EMBL; AJ002310; CAA05327.1; -
DR EMBL; AJ002312; CAA05327.1; JOINED.
DR EMBL; BC000407; AAH00407.1; -
DR EMBL; BC029755; AAH29755.1; -
DR Genew; HGNC:11499; SYNGR2.
DR MIM; 603926; -
DR GO; GO:0005887; C:intracellular plasma membrane; TAS.
DR InterPro; IPR008253; Marvel.
DR Pfam; PF01284; MARVEL; 1.
KM Transmembrane.
FT TRANSMEM 26 46 POTENTIAL.
FT TRANSMEM 73 93 POTENTIAL.
FT TRANSMEM 105 125 POTENTIAL.
FT TRANSMEM 147 167 POTENTIAL.
FT TRANSMEM 160 162 GVL -> VGM (IN REF. 1; CAA05327).
FT CONFLICT 160 162
SQ SEQUENCE 224 AA; 24810 MW; EC92C95CEB5ED41 CRC64;

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Best Local Similarity 100.0%; Pred. No. 9.3e-101;
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DB 121 VGECPFLTNQAAVTPKDVVVGADSVRAATTFSSFFSIFSGVLAISAYQRYKAGVDDEFION 180
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DB 121 VGECPFLTNQAAVTPKDVVVGADSVRAATTFSSFFSIFSGVLAISAYQRYKAGVDDEFION 180
QY 181 YVDPPTDPTNTAASYPGASVDVNYQOPPTQNAETTEGYOPPEVY 224
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AC OS5101;
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DE Synaplogyrin 2 (Cellugyrin).
GN SYNGR2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RX MEDLINE=98430994; PubMed=9760194;
RA Kedra D., Pan H.-Q., Seroussi E., Fransson I., Guilbaud C.,
RA Collins J.E., Dunham I., Blennow E., Roe B.A., Plehl F.,
RA Dumanski J.P.;
RT "Characterization of the human synaplogyrin gene family.";
RL Hum. Genet. 103:131-141(1998).
RN [2]
RX SEQUENCE FROM N.A.
RA Sun M.Y., Reay P.A.;
RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- SIMILARITY: Belongs to the synaplogyrin family.
CC -----
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DR EMBL; AJ002307; CAA05324.1; -
DR EMBL; AF151985; AAD38046.1; -
DR MGD; MGI:128324; Syngt2.
DR InterPro; IPR008253; Marvel.
DR Pfam; PF01284; MARVEL; 1.
KM Transmembrane.
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FT TRANSMEM 72 92 POTENTIAL.
FT TRANSMEM 105 125 POTENTIAL.
FT TRANSMEM 147 167 POTENTIAL.
SQ SEQUENCE 224 AA; 24778 MW; 951FE014C9C3EBE6 CRC64;

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ID SNG2 RAT STANDARD; PRT; 234 AA.
AC OS4950;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Synaplogyrin 2 (Cellugyrin).
GN SYNGR2.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RX SEQUENCE FROM N.A.
RA MEDLINE=98112834; PubMed=9446595;
RA Janz R., Stuehof T.C.;
RT "Cellugyrin, a novel ubiquitous form of synaplogyrin that is
RL phosphorylated by pp60(c-src).";
RL J. Biol. Chem. 273:2851-2857(1998).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- TISSUE SPECIFICITY: Ubiquitous; low expression in brain.
CC -1- PTM: Tyrosine phosphorylated by Src.
CC -1- SIMILARITY: Belongs to the synaplogyrin family.
CC -----
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CC -----
DR EMBL; AF039085; AAB96666.1; -
DR InterPro; IPR008253; Marvel.
DR Pfam; PF01284; MARVEL; 1.
KM Transmembrane; Phosphorylation.

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Appendix A

Dp		1143	GCTTGTGTCACATCAAGTTTGCTCCCTGTGGCCACTGTGTAATCATCTGGGGGG	1202
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Dp		1263	TCAATGGACTTCCTCTGTGCTGCCACCCCTGGCAGCAGGAGAAGGCTTTCCTGACAACA	1322
Qy		1344	CCACGCTTTATGTAAATAATTCTGAGATGTGTACTAGGAAGCCCTGGGAGAGGAGGCTG	1403
Dp		1323	CCACGCTTTATGTAAATAATTCTGAGATGTGTACTAGGAAGCCCTGGGAGAGGAGGCTG	1382
Qy		1404	CCCCATGGCTCCGAGACTCTGTCTGTGCGCAGTGTATTATAAATCGTGGGGAGATGCC	1463
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Qy		1464	CGGCTGGGATGCTGTTTTGGAGAGGAATAATGTTTTCCATCA	1509
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LOCUS		HSNJ2308				
DEFINITION		Homo sapiens mRNA for synaptophysin 2.				
ACCESSION		AJ002308				
VERSION		AJ002308.1 GI:2959871				
KEYWORDS		Synaptophysin 2.				
SOURCE		Homo sapiens (human)				
ORGANISM		Eukaryota; Metazoa; Chordata; Craniata; Vertebrate; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
REFERENCE		1 Kedra, D., Pan, H.Q., Seroussi, E., Fransson, I., Guilbaud, C., Collins, J.E., Dunham, I., Blomew, E., Roe, B.A., Plehl, F. and Dunamski, J.P. Characterization of the human synaptophysin gene family Unpublished 2 (bases 1 to 1491) Kedra, D. Direct Submission Submitted (29-OCT-1997) Kedra D., Dept. of Molecular Medicine, Clinical Genetics Unit, Karolinska Hospital, CM building L-8,, S-17176 Stockholm, SWEDEN Location/Qualifiers 1. 1491 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /chromosome="17" /map_gene=""				
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gene		exon				
CDS						

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30..704		
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/protein_id="CAA05325.1"		
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[illegible]

Db	783	CCAGGCCCTCTCTTTCACTGTATTCACATCTGTGACAGCTACACACAGCTAAGAGCTCA	842
Qy	864	TAGCCTGAGGGGGGGCTGAGAGCACAACCCCAAGGCTGTGGCCACAGGGCTCACTG	923
Db	843	TAGCTGGGGGGGGCTGAGAGCACAACCCCAAGTACTGTGGCCAGAGGGCTTAGCTC	902
Qy	924	AGCGCTCACTCTCCAGGGACCTTTTAGAAAGGGTTTTAGTAGTGTTTTCTCTGC	983
Db	903	AGCGCTCACTCTCCAGGGACCTTTTAGAAAGGGTTTTAGTAGTGTTTTCTCTGC	962
Qy	984	TTTATATGACCTCAGCCCGGCTGACGTGGCTAAGAGCAGAGGGGCCATGAGTACT	1043
Db	963	TTTTATATGACCTCAGCCCGGCTGACGTGGCTAAGAGCAGAGGGGCCATGAGTACT	1022
Qy	1044	GACAACTGCTCAAGCTTCCCCCGGCTGAGGCGGTGAGCGGTGAGGCCGTATATCTGC	1103
Db	1023	GACAACTGCTCAAGCTTCCCCCGGCTGAGGCGGTGAGCGGTGAGGCCGTATATCTGC	1082
Qy	1104	TTCTCTGCCAAGACTCTGTGGGGGGCCATACACTGCTGCTGACCGGACCGACAG	1163
Db	1083	TTCTCTGCCAAGACTCTGTGGGGGGCCATACACTGCTGCTGACCGGACCGACAG	1142
Qy	1164	GCTCTGTGCTCTCACTCAAGTTTCTTCCCTGTGGCCACTGCTGTATGATCTGGGGGC	1223
Db	1143	GCTCTGTGCTCTCACTCAAGTTTCTTCCCTGTGGCCACTGCTGTATGATCTGGGGGC	1202
Qy	1224	CACCAACCTGTGCGCGGTGCGCTCTGGGCTGCTCCCTGTGTATGAGGCGGGGCTGTGC	1283
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TITLE	Sachdev, A., Whiting, M., Madan, A., Young, A.C., Shcherchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skaskas, U., Smalins, D.E., Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
JOURNAL	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
MEDLINE	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
PUBMED	22388257
REFERENCE	12477932
AUTHORS	2 (bases 1 to 1708)
TITLE	Strausberg, R.
JOURNAL	Direct Submission
COMMENT	Submitted (15-NOV-2000) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11X03, Bethesda, MD 20892-2590, USA
REMARK	NIH-MGC Project URL: http://mgc.nci.nih.gov
COMMENT	On Nov 6, 2003 this sequence version replaced gi:12653276.

REMARK	FEATURES
<p>NIH-MGC Project URL: http://mgc.nci.nih.gov On Nov 6, 2003 this sequence version replaced gi:12653276. Contact: MGC help desk Email: gcgaps-remail.nih.gov Tissue Procurement: DCTD/DTP DNA Library Preparation: Rubin Laboratory DNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNI) DNA Sequencing by: National Institutes of Health Intramural Sequencing Center (NISC), Gaithersburg, Maryland, Web site: http://www.nisc.nih.gov/ Contact: nisc.mgc@nih.gov Akhter, N., Ayale, K., Beckstrom-Sternberg, S.M., Benjamin, B., Blakeley, R.W., Bouffard, G.G., Breen, K., Brinley, C., Brooks, S., Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Hachiguchi, P., Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Latic, P., Legaspi, R., Maduro, O.L., Masello, C., Maskell, B., Mastrian, S.D., McCloskey, J.C., McDowell, J., Pearson, R., Starridop, S., Thomas, P.J., Touchman, J.W., Turgeon, C., Vogt, J.L., Walker, M.A., Wechtery, K.D., Wiggins, L., Young, A., Zhang, L.-H. and Green, E.D.</p>	<p>Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILNI at: http://image.llnl.gov Series: IRAL Plate: 1 Row: k Column: 10 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 22091455. Location/Qualifiers 1..1708</p>

RESULT		6
LOCUS	BC000407	
DEFINITION	Homo sapiens synaptopectin 2, mRNA (cDNA clone MGC:8571 IMAGE:2825026), complete cds.	1708 bp linear PRI 06-NOV-2003
VERSION	EC000407	
ACCSSION	BC000407.2 GI:38197476	
KEYWORDS	MGC.	
SOURCE	Homo sapiens (human)	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. I (bases 1 to 1708) Strauberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,K.H., Shenman,C.M., Schuler,G.D., Altschuler,S.F., Zeeberg,B., Butow,K.R., Schneier,C.F., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Heich,F., Dilchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L., Stepleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.J., Scheefer,I.E., Brownstein,M.J., Uediri,T.B., Tosiylki,S., Caminci,P., Pirange,C., Raha,S.S., Loquellano,N.A., Peters,G.T., Abramson,R.D., Mullahy,S.J., Bosak,S.A., McEwan,P.J., McCorman,K.J., Malek,K.A., Gunaratne,P.H., Richards,S., Weller,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulik,S.W., Villalón,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahey,J., Helton,E., Kettelman,M., Madam,A., Rodriguez,S.,	
REFERENCE		
AUTHORS		

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family proteins. It may be part of the machinery of

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OPPEY"

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2

[illegible]

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 7, 2004, 11:55:09 ; Search time 23 Seconds
(without alignments)
502.792 Million cell updates/sec

Title: US-10-020-445A-162

Perfect score: 1191

Sequence:

1 MESGAYGAKAGGSFDRRF.....OPPTONATTEGYQPPVY 224

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing:

Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

Issued Patents AA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	93	7.8	18	4	US-09-227-357-510
7	93	7.8	18	4	US-09-874-922-121
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12	85	7.1	522	3	US-08-945-826-2
13	85	7.1	522	3	US-09-197-503-2
14	84	7.1	419	2	US-08-933-759C-30
15	84	7.1	419	3	US-09-234-613-30
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17	81.5	6.8	521	4	US-09-197-503-6
18	79.5	6.7	307	1	US-07-982-112-2
19	79.5	6.7	576	4	US-09-540-236-2286
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22	77	6.5	472	4	US-09-252-991A-18544
23	77	6.5	1214	2	US-08-231-193A-54
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25	77	6.5	1214	3	US-08-480-474-54
26	77	6.5	1214	3	US-08-940-086A-54
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28	77	6.5	1214	4	US-08-935-105A-54	Sequence 54, Appl
29	77	6.5	1214	4	US-09-648-797-54	Sequence 54, Appl
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37	77	6.5	1231	4	US-09-386-123-48	Sequence 48, Appl
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42	77	6.5	1239	4	US-08-940-035A-52	Sequence 52, Appl
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44	77	6.5	1239	4	US-09-648-797-52	Sequence 52, Appl
45	77	6.5	1239	4	US-09-386-123-52	Sequence 52, Appl

ALIGNMENTS

RESULT 1
US-08-700-637-2

Sequence 2, Application US/08700637
Patent No. 5854413

GENERAL INFORMATION:
Applicant: Hawking, Phillip R.

Applicant: Murray, Lynn B.

Title of Invention: NOVEL SYNAPTOGYRIN HOMOLOG FROM COLON

Number of Sequences: 12

Correspondence Address:
Address: Inocyte Pharmaceuticals, Inc.
Street: 3174 Porter Drive
City: Palo Alto
State: CA
Country: U.S.
Zip: 94304

Computer Readable Form:
Medium Type: Diskette
Computer: IBM Compatible
Operating System: DOS

Software: FASTSEQ Version 1.5

Current Application Data:
Application Number: US/08/700,637

Filing Date: Filed Herewith

Attorney/Agent Information:
Name: Luther, Barbara J.

Registration Number: 33,954

Reference/Docket Number: PF-0065 US

Telecommunication Information:
Telefax: 415-852-0195

Information for SEQ ID NO: 2:
Sequence Characteristics:
Length: 224 amino acids
Type: amino acid

Strandedness: single

Topology: linear

Molecule Type: peptide

Immediate Source:
Library: COLNOT05
Clone: 775426

US-08-700-637-2

Query Match 99.5%, Score 1185, DB 2, Length 224;
Best Local Similarity 99.6%, Pred. No. 3, 3e-125;
Matches 223; Conservative 1; Indels 0; Gaps 0;

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Db 61 FNNEDACRYGSAIGVLAFLASAFLLVVDVAFPOISNATDRKILVIGDLLFSALMTPLMF 120
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Db 181 YVDFTPDPNTAYASYPGASVDNYQOPPTONAEFTTEGYOPPPY 224

RESULT 2

US-08-700-637-3
Sequence 3, Application US/08700637
Patent No. 5854413
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Stuart, Susan G.
APPLICANT: Murry, Lynn E.
TITLE OF INVENTION: NOVEL SYNAPTOGKRIN HOMOLOG FROM COLON
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA: 37
APPLICATION NUMBER: US/08/700, 637
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0065 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 231 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: Genbank
CLONE: GI 1072118
US-08-700-637-3

Query Match 46.9%; Score 558; DB 2; Length 231;

Best Local Similarity 49.4%; Pred. No. 1,3e-54;

Matches 114; Conservative 29; Mismatches 72; Indels 16; Gaps 6;

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RESULT 3

US-09-227-357-512
Sequence 512, Application US/09227357
Patent No. 6342581
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P1
CURRENT APPLICATION NUMBER: US/09/227,357
EARLIER FILING DATE: 1998-01-08
EARLIER APPLICATION NUMBER: PCT/US98/13684
EARLIER FILING DATE: 1998-07-07
EARLIER APPLICATION NUMBER: 60/051,926
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,793
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,925
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EARLIER APPLICATION NUMBER: 60/051,932
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EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,920
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EARLIER APPLICATION NUMBER: 60/052,733
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EARLIER APPLICATION NUMBER: 60/052,795
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EARLIER FILING DATE: 1997-07-08
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EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,950
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,947
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,964
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/056,360
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,684
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,984
EARLIER FILING DATE: 1997-08-18

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 7, 2004, 11:50:34 ; Search time 18 Seconds
(without alignments)
647.984 Million cell updates/sec

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Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1066	89.5	224	1 SNG2_MOUSE	O51910 mus musculu
3	1055	88.6	234	1 SNG2_RAT	O54980 rattus norv
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5	576.5	48.4	234	1 SNG1_MOUSE	O55100 mus musculu
6	575.5	48.3	234	1 SNG1_RAT	O62876 rattus norv
7	492	41.3	229	1 SNG1_HUMAN	O43761 homo sapien
8	329.5	27.7	234	1 SNG1_MOUSE	O95473 homo sapien
9	257	21.6	247	1 SNG1_MOUSE	O76735 caenorhabdi
10	150	12.6	263	1 SNG4_MOUSE	O92112 mus musculu
11	103	8.6	265	1 SNGP_HUMAN	O61879 homo sapien
12	101	8.5	265	1 SNGP_RAT	P22833 rattus norv
13	99	8.3	265	1 SNGP_MOUSE	O61878 mus musculu
14	94.5	7.9	313	1 SYPH_BOVIN	P20488 bos taurus
15	87	7.3	208	1 CLF4_MOUSE	O61661 mus musculu
16	85.5	7.2	819	1 FTSK_CAUCR	O24262 caulobacter
17	85	7.1	522	1 OCIN_HUMAN	O16622 homo sapien
18	84.5	7.1	614	1 MAGT_YEAST	P15685 saccharomyc
19	83	7.0	351	1 Y876_MENJA	O68296 methanococ
20	83	7.0	614	1 MAGT_YEAST	P33156 saccharomyc
21	81.5	6.8	521	1 OCIN_MOUSE	O61146 mus musculu
22	81	6.8	718	1 TRF2_CHICK	O99053 gallus gall
23	80.5	6.8	602	1 MXT_YEAST	P47186 saccharomyc
24	80	6.7	234	1 CLF4_HUMAN	O61215 homo sapien
25	80	6.7	521	1 CP11_LIZSA	O94683 liza salien
26	79.5	6.7	307	1 SYPH_RAT	P07825 rattus norv
27	79.5	6.7	307	1 Y845_CAERL	O11073 caenorhabdi
28	79	6.6	323	1 RCMV_RHOVT	P06010 rhodopsin
29	79	6.6	461	1 CDS1_RAT	O35052 r phosphati
30	79	6.6	469	1 NDNB_BUCAL	P57262 buchnera ap
31	79	6.6	521	1 CP11_LIZSA	O42231 liza aurata
32	78.5	6.6	1021	1 S123_HUMAN	P55017 homo sapien
33	78.5	6.6	1419	1 ALA1_CANAL	O13368 candida alb

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37	77.5	6.5	1002	1 S123_MOUSE	P51558 mus musculu
38	77	6.5	281	1 UPK_CORST	O91558 corynebacte
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44	75.5	6.3	294	1 YD22_YEAST	O916p1 salmoneilla
45	75	6.3	309	1 YD22_YEAST	Q07651 saccharomyc

ALIGNMENTS

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DT	30-MAY-2000 (Rel. 39, Last sequence update)			
DT	10-OCT-2003 (Rel. 42, Last annotation update)			
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GN	SYNCR2.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX	NCBI_Taxid=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Lung, and lymph;			
RX	MEDLINE=22388257; PubMed=12477932;			
RA	Strasberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,			
RA	Klausner R.D., Wagner F.S., Shemen C.M., Schuler G.D.,			
RA	Altehrn S.F., Zeeberg B., Buetow K.H., Bhat N.K.,			
RA	Hopkins R.F., Jordan H., Moore T., Wax S.I., Wang J., Hsieh F.,			
RA	Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,			
RA	Stapleton M., Soares M.B., Bonaldi M.F., Casavant T.T., Scheetz T.E.,			
RA	Browstein M.J., Uedlin T.B., Toshiyuki S., Carninci P., Prange C.,			
RA	Raha S.S., Leebman N.A., Peters G.J., Abrahamson R.D., Mullany S.J.,			
RA	Bosch S.A., McKernan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,			
RA	Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulik S.W.,			
RA	Villalon D.K., Muzny D.M., Sodergren E.V., Lu X., Gibbs R.A.,			
RA	Valney U., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,			
RA	Whitting M., Madan A., Young A.C., Shevchenko V., Bouffard G.G.,			
RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,			
RA	Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,			
RA	Butterfield Y.S.N., Krzyzanski M.I., Skalska U., Smallos D.E.,			
RA	Schuerch A., Schein J.E., Jones S.J.M., Marra M.A.,			
RT	"Generation and initial analysis of more than 15,000 full-length			
RT	human and mouse cDNA sequences."			
RL	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).			
CC	-1- SUBCELLULAR LOCATION: Integral membrane protein.			
CC	-1- TISSUE SPECIFICITY: Ubiquitous; low expression in brain.			
CC	-1- SIMILARITY: Belongs to the synapcogrin family.			
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CC	use by non-profit institutions as long as its content is in no way			
CC	modified and that statement is not removed. Usage by and for commercial			
CC	entities requires a license agreement (see http://www.isb-sib.ch/announce/			
CC	or send an email to license@sib-sib.ch).			

CC -----
 DR EMBL; AJ002308; CAA05325.1; -
 DR EMBL; AJ002310; CAA05327.1; -
 DR EMBL; AJ002312; CAA05327.1; JOINED.
 DR EMBL; BC000407; AAH00407.1; -
 DR EMBL; BC029755; AAH29755.1; -
 DR Genew; HGNC:11499; SYNGR2.
 DR MIM: 603926; -
 DR CO; GO:0005987; C.integral to plasma membrane; TAS.
 DR InterPro; IPR008253; Marvel.
 DR Pfam; PF01284; MARVEL; 1.
 KW Transmembrane.
 FT TRANSMEM 26 46 POTENTIAL.
 FT TRANSMEM 73 93 POTENTIAL.
 FT TRANSMEM 105 125 POTENTIAL.
 FT TRANSMEM 147 167 POTENTIAL.
 FT TRANSMEM 160 162 POTENTIAL.
 FT CONFLICT 160 162 GVL->VGM (IN REF. 1: CAA05327).
 FT SEQUENCE 224 AA; 24810 MW; EC92C95CE95BD41 CRC64;
 SQ

Query Match 100.0%; Score 1191; DB 1; Length 224;
 Best Local Similarity 100.0%; Pred. No. 9.3e-101;
 Matches 224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MEGAGAAKAGGSPFLRRFLTPQVVAACLVFALIVFSCITGEGYNAHESKOMYCV 60
 DB 1 MEGAGAAKAGGSPFLRRFLTPQVVAACLVFALIVFSCITGEGYNAHESKOMYCV 60
 QY 61 FNNEDACRYGSAIGVLAFLASAFVVDAYFPQISNATDRKXLYIGDLFSAWTFLMF 120
 DB 61 FNNEDACRYGSAIGVLAFLASAFVVDAYFPQISNATDRKXLYIGDLFSAWTFLMF 120
 QY 121 VGECFLTNQAVTNPKDVLVGADSVPAATTFSPFISFGVLAASLAVQRYKGVDDFION 180
 DB 121 VGECFLTNQAVTNPKDVLVGADSVPAATTFSPFISFGVLAASLAVQRYKGVDDFION 180
 QY 181 YVPTPDPTNTAVASYPGASVDNYQCPPTQNAETTEGYPPEY 224
 DB 181 YVPTPDPTNTAVASYPGASVDNYQCPPTQNAETTEGYPPEY 224

RESULT 2
 SNG2_MOUSE STANDARD; PRT; 224 AA.
 ID SNG2_MOUSE STANDARD; PRT; 224 AA.
 AC OS5101;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 30-MAY-2000 (Rel. 39, Last annotation update)
 DE Synaplogyrin 2 (Cellugyrin).
 GN SYNGR2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98430994; Pubmed=9760194;
 RA Kedra D., Pan H.-Q., Seroussi E., Franssen I., Guilbaud C.,
 RA Collins J.E., Dunham I., Blennow E., Roe B.A., Pienl F.,
 RA Dumanski J.P.;
 RT "Characterization of the human synaplogyrin gene family.";
 RL Hum. Genet. 103:131-141 (1998).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Sun M.Y., Reay P.A.;
 RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -1- SIMILARITY: Belongs to the synaplogyrin family.

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CC -----
 DR EMBL; AJ002307; CAA05324.1; -
 DR EMBL; AF151985; AAD38046.1; -
 DR MGD; MGI:1328324; SyngR2.
 DR InterPro; IPR008253; Marvel.
 DR Pfam; PF01284; MARVEL; 1.
 KW Transmembrane.
 FT TRANSMEM 31 51 POTENTIAL.
 FT TRANSMEM 72 92 POTENTIAL.
 FT TRANSMEM 105 125 POTENTIAL.
 FT TRANSMEM 147 167 POTENTIAL.
 FT SEQUENCE 224 AA; 24778 MW; 951FE014C9C3EEB6 CRC64;
 SQ

Query Match 89.5%; Score 1066; DB 1; Length 224;
 Best Local Similarity 88.8%; Pred. No. 1.9e-89;
 Matches 199; Conservative 9; Mismatches 16; Indels 0; Gaps 0;

QY 1 MEGAGAAKAGGSPFLRRFLTPQVVAACLVFALIVFSCITGEGYNAHESKOMYCV 60
 DB 1 MEGAGAAKAGGSPFLRRFLTPQVVAACLVFALIVFSCITGEGYNAHESKOMYCV 60
 QY 61 FNNEDACRYGSAIGVLAFLASAFVVDAYFPQISNATDRKXLYIGDLFSAWTFLMF 120
 DB 61 FNNEDACRYGSAIGVLAFLASAFVVDAYFPQISNATDRKXLYIGDLFSAWTFLMF 120
 QY 121 VGECFLTNQAVTNPKDVLVGADSVPAATTFSPFISFGVLAASLAVQRYKGVDDFION 180
 DB 121 VGECFLTNQAVTNPKDVLVGADSVPAATTFSPFISFGVLAASLAVQRYKGVDDFION 180
 QY 181 YVPTPDPTNTAVASYPGASVDNYQCPPTQNAETTEGYPPEY 224
 DB 181 YVPTPDPTNTAVASYPGASVDNYQCPPTQNAETTEGYPPEY 224

RESULT 3
 SNG2_RAT STANDARD; PRT; 234 AA.
 ID SNG2_RAT STANDARD; PRT; 234 AA.
 AC OS496C;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Synaplogyrin 2 (Cellugyrin).
 GN SYNGR2.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OC NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98112834; Pubmed=9446595;
 RA Janz R., Suedhof T.C.;
 RT "Cellugyrin, a novel ubiquitous form of synaplogyrin that is
 RT phosphorylated by pp60(c-src)".
 RL J. Biol. Chem. 273:2851-2857 (1998).
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -1- TISSUE SPECIFICITY: Ubiquitous; low expression in brain.
 CC -1- PTM: Tyrosine phosphorylated by src.
 CC -1- SIMILARITY: Belongs to the synaplogyrin family.

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CC EMBL; AF039085; AA896666.1; -
 CC InterPro; IPR008253; Marvel.
 CC Pfam; PF01284; MARVEL; 1.
 KW Transmembrane; Phosphorylation.

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OM protein - protein search, using sw model

Run on: April 7, 2004, 11:50:34 ; Search time 18 Seconds
(without alignments)

647.984 Million cell updates/sec

Title: US-10-020-445A-162
Perfect score: 1191

Sequence: 1 MESSAGYGAGAXGGSFIDLRF.....QPPTONARTEGYQPPVY 224

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	1191	100.0	224	1 SNG2_HUMAN
2	1066	89.5	224	1 SNG2_MOUSE
3	1055	88.6	234	1 SNG2_RAT
4	576.5	48.4	234	1 SNG1_HUMAN
5	576.5	48.4	234	1 SNG1_MOUSE
6	575.5	48.3	234	1 SNG1_RAT
7	492	41.3	229	1 SNG3_HUMAN
8	329.5	27.7	234	1 SNG4_HUMAN
9	257	21.6	247	1 SNG1_MOUSE
10	150	12.6	233	1 SNG4_MOUSE
11	103	8.6	265	1 SNGP_HUMAN
12	101	8.5	265	1 SNGP_RAT
13	99	8.3	265	1 SNGP_MOUSE
14	94.5	7.9	313	1 SYPH_BOVIN
15	87	7.2	819	1 CLF4_MOUSE
16	85.5	7.2	208	1 FTSK_CAUCR
17	85	7.1	522	1 OCLN_HUMAN
18	84.5	7.1	614	1 M6T_YEAST
19	83	7.0	351	1 Y876_MERIT
20	83	7.0	614	1 M6T_YEAST
21	81.5	6.8	521	1 OCLN_MOUSE
22	81	6.8	718	1 TRF2_CHICK
23	80.5	6.8	602	1 MAXT_YEAST
24	80	6.7	234	1 CLF4_HUMAN
25	80	6.7	521	1 CLF4_MOUSE
26	79.5	6.7	307	1 SYPH_RAT
27	79.5	6.7	507	1 Y745_CAEEL
28	79	6.6	323	1 R6M1_RHOVI
29	79	6.6	461	1 CDS1_RAT
30	79	6.6	469	1 NVON_BUCAI
31	79	6.6	521	1 CP11_LIZAU
32	78.5	6.6	1021	1 S123_HUMAN
33	78.5	6.6	1419	1 ALA1_CANAL

34	77.5	6.5	282	1 UPK_MYCLE
35	77.5	6.5	452	1 YEEF_ECOLI
36	77.5	6.5	706	1 YABA_SCHPO
37	77.5	6.5	1002	1 S123_MOUSE
38	77	6.5	281	1 UPK_CORST
39	77	6.5	367	1 CYB_AUSUS
40	76.5	6.4	313	1 SYPH_HUMAN
41	76.5	6.4	1002	1 S123_RAT
42	76	6.4	2193	1 POLG_CX1CT
43	75.5	6.3	294	1 RAND_SALTI
44	75.5	6.3	294	1 RAND_SALTI
45	75	6.3	309	1 YD22_YEAST

ALIGNMENTS

RESULT 1
ID SNG2_HUMAN STANDARD; PRT; 224 AA.
AC Q43760; Q43762;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Synapocogyrin 2 (Cellulysin).
GN SNGR2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98430994; PubMed=9760194;
RA Keda D., Pan H.-Q., Serousi E., Fransson I., Guilbaud C.,
RA Collins J.E., Dunham I., Blennow E., Roe B.A., Piehl F.,
RA Dumanaki J.P.;
RT "Characterization of the human synapocogyrin gene family.";
RL Hum. Genet. 103:131-141(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung, and Lymph;
RX MEDLINE=22388257; PubMed=12477932;
RA Klausner R.D., Collins P.S., Wagner L., Sherman C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh P.,
RA Diachenko L., Marustina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.D., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loggiano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McKernan P.J., McKernan K.T., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Wuzny D.N., Sodergren E.V., Lu X., Gibbs R.A.,
RA Fahy U., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butlerfield V.S.N., Krzyzanski M.I., Skalska U., Smallus D.E.,
RA Scherch A., Schein J.E., Jones S.J.W., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- TISSUE SPECIFICITY: Ubiquitous; low expression in brain.
CC -1- SIMILARITY: Belongs to the synapocogyrin family.
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CC -----
DR EMBL; AJ002308; CAA05325.1; -
DR EMBL; AJ002310; CAA05327.1; -
DR EMBL; AJ002312; CAA05327.1; JOINED.
DR EMBL; BC000407; AAH00407.1; -
DR EMBL; BC029755; AAH29755.1; -
DR Genew; HGNC:11499; SYNGR2.
DR MIM; 603926; -
DR GO; GO:0005887; C: integral to plasma membrane; TMS.
DR InterPro; IPR008253; Marvel.
DR Pfam; PF01284; MARVEL; 1.
DR Transmembrane.
KW TRANSMEM 26 46 POTENTIAL.
FT TRANSMEM 73 93 POTENTIAL.
FT TRANSMEM 105 125 POTENTIAL.
FT TRANSMEM 147 167 POTENTIAL.
FT TRANSMEM 160 162 GVL -> VGV (IN REF. 1; CAA05327).
FT CONFLICT 160 162 GVL -> VGV (IN REF. 1; CAA05327).
SQ SEQUENCE 224 AA; 24610 MW; EC92C95CE95BD41 CRC64;

Query Match
Best Local Similarity 100.0%; Score 1191; DB 1; Length 224;
Matches 224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MESAAGAAAGAGGSPDLRRFLTPQVAVARAVCLVFAIVPSCIYGEYSNAHESKOMYCV 60
DB 1 MESAAGAAAGAGGSPDLRRFLTPQVAVARAVCLVFAIVPSCIYGEYSNAHESKOMYCV 60
QY 61 FNRNEDACRYGSAIGVLAFLASAFLLVVDAYFPQISNATRKLYVIGDLLFSALMTFLWF 120
DB 61 FNRNEDACRYGSAIGVLAFLASAFLLVVDAYFPQISNATRKLYVIGDLLFSALMTFLWF 120
QY 121 VGFCFLTNQMAVTPKQVAVGADSVRAITFSFISFGVLAASLAVQRYKAGVDPIQN 180
DB 121 VGFCFLTNQMAVTPKQVAVGADSVRAITFSFISFGVLAASLAVQRYKAGVDPIQN 180
QY 121 VGFCFLTNQMAVTPKQVAVGADSVRAITFSFISFGVLAASLAVQRYKAGVDPIQN 180
DB 121 VGFCFLTNQMAVTPKQVAVGADSVRAITFSFISFGVLAASLAVQRYKAGVDPIQN 180
QY 181 YVDPTPDNTAYASYPGASVDNVOQPPFTONAEFTTEGYQPPVY 224
DB 181 YVDPTPDNTAYASYPGASVDNVOQPPFTONAEFTTEGYQPPVY 224
QY 181 YVDPTPDNTAYASYPGASVDNVOQPPFTONAEFTTEGYQPPVY 224
DB 181 YVDPTPDNTAYASYPGASVDNVOQPPFTONAEFTTEGYQPPVY 224

RESULT 2
SNG2 MOUSE STANDARD; PRT; 224 AA.
ID SNG2 MOUSE STANDARD; PRT; 224 AA.
AC 054980;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 30-MAY-2000 (Rel. 39, Last annotation update)
DE Synaplogyrin 2 (Cellugyrin).
GN SYNGR2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98430994; PubMed=9760194;
RA Kedra D., Pan H.-Q., Seroussi E., Fransson I., Guillaud C.,
RA Collins J.E., Dunham I., Blomnau E., Roe B.A., Piehl F.,
RA Dunanski J.P.;
RT "Characterization of the human synaplogyrin gene family.";
RL Hum. Genet. 103:131-141(1998).
RN [2]
RP SEQUENCE FROM N.A.
RX Sun M.Y., Reay P.A.;
RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- SIMILARITY: Belongs to the synaplogyrin family.
CC -----
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CC or send an email to license@ebi.ac.uk).
CC -----
DR EMBL; AJ002307; CAA05324.1; -
DR EMBL; AF151985; AAD38046.1; -
DR MGD; MGI:1328324; Syngt2.
DR InterPro; IPR008253; Marvel.
DR Pfam; PF01284; MARVEL; 1.
DR Transmembrane.
KW TRANSMEM 31 51 POTENTIAL.
FT TRANSMEM 72 92 POTENTIAL.
FT TRANSMEM 105 125 POTENTIAL.
FT TRANSMEM 147 167 POTENTIAL.
SQ SEQUENCE 224 AA; 24778 MW; 951FE014C9C3EB6 CRC64;

Query Match
Best Local Similarity 89.5%; Score 1066; DB 1; Length 224;
Matches 199; Conservative 9; Mismatches 16; Indels 0; Gaps 0;

QY 1 MESAAGAAAGAGGSPDLRRFLTPQVAVARAVCLVFAIVPSCIYGEYSNAHESKOMYCV 60
DB 1 MESAAGAAAGAGGSPDLRRFLTPQVAVARAVCLVFAIVPSCIYGEYSNAHESKOMYCV 60
QY 61 FNRNEDACRYGSAIGVLAFLASAFLLVVDAYFPQISNATRKLYVIGDLLFSALMTFLWF 120
DB 61 FNRNEDACRYGSAIGVLAFLASAFLLVVDAYFPQISNATRKLYVIGDLLFSALMTFLWF 120
QY 121 VGFCFLTNQMAVTPKQVAVGADSVRAITFSFISFGVLAASLAVQRYKAGVDPIQN 180
DB 121 VGFCFLTNQMAVTPKQVAVGADSVRAITFSFISFGVLAASLAVQRYKAGVDPIQN 180
QY 121 VGFCFLTNQMAVTPKQVAVGADSVRAITFSFISFGVLAASLAVQRYKAGVDPIQN 180
DB 121 VGFCFLTNQMAVTPKQVAVGADSVRAITFSFISFGVLAASLAVQRYKAGVDPIQN 180
QY 181 YVDPTPDNTAYASYPGASVDNVOQPPFTONAEFTTEGYQPPVY 224
DB 181 YVDPTPDNTAYASYPGASVDNVOQPPFTONAEFTTEGYQPPVY 224
QY 181 YVDPTPDNTAYASYPGASVDNVOQPPFTONAEFTTEGYQPPVY 224
DB 181 YVDPTPDNTAYASYPGASVDNVOQPPFTONAEFTTEGYQPPVY 224

RESULT 3
SNG2 RAT STANDARD; PRT; 234 AA.
ID SNG2 RAT STANDARD; PRT; 234 AA.
AC 054980;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Synaplogyrin 2 (Cellugyrin).
GN SYNGR2.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98112834; PubMed=9446595;
RA Tan R., Suedhof T.C.;
RT "Cellugyrin, a novel ubiquitous form of synaplogyrin that is
RT phosphorylated by pp60(c-src).";
RL J. Biol. Chem. 273:2851-2857(1998).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- TISSUE SPECIFICITY: Ubiquitous; low expression in brain.
CC -1- PTM: Tyrosine phosphorylated by Src.
CC -1- SIMILARITY: Belongs to the synaplogyrin family.
CC -----
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CC or send an email to license@ebi.ac.uk).
CC -----
DR EMBL; AF039085; AAB96666.1; -
DR InterPro; IPR008253; Marvel.
DR Pfam; PF01284; MARVEL; 1.
KW Transmembrane; Phosphorylation.

```



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FT TRANSMEM 40 60 POTENTIAL.
FT TRANSMEM 83 103 POTENTIAL.
FT TRANSMEM 115 135 POTENTIAL.
FT TRANSMEM 157 177 POTENTIAL.
SQ SEQUENCE 234 AA; 25709 MW; 68168A787CCF5B8C CRC64;

Query Match 88.64; Score 1055; DB 1; Length 234;
Best Local Similarity 87.94; Pred No. 2e-68;
Matches 197; Conservative 9; Mismatches 18; Indels 0; Gaps 0;

QY 1 MSGAGCAAGAGGSPDIREFLTOPQVAVARVCLVFLVFCISYGGESNAHESKQMYCV 60
DB 11 MSGAGCAAGAGGSPDIREFLTOPQVAVARVCLVFLVFCISYGGESNAHESKQMYCV 70
QY 61 FNNEDACRYGSAIGVAFAPLAFSAFELVVDVYFPOISNADTKVLYGDLFSLMTWTFW 120
DB 71 FNNEDACRYGSAIGVAFAPLAFSAFELVVDVYFPOISNADTKVLYGDLFSLMTWTFW 130
QY 121 VGCFELTNQWAVTNPKDVLVGADSVRAATFSEFISFGWGLASLAVQRYKAGVDDEFION 180
DB 131 VGCFELTNQWAVTNPKDVLVGADSVRAATFSEFISFGWGLASLAVQRYKAGVDDEFION 190
QY 181 YVDPEDPNTAAASYRPSASVDNYQOPEFTQNAETTEGTYQPPPY 224
DB 191 YVDPEDPNTAAASYRPSASVDNYQOPEFTQNAETTEGTYQPPPY 234

RESULT 4
SNGI_HUMAN STANDARD; PRT: 234 AA.
ID AC 043759; 043757; 043756; 096056; 090624;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE SYNPOGyrin 1.
GN SYNPOG.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN 11
RP SEQUENCE FROM N.A.
RX MEDLINE=98430994; PubMed=9760194; Fransson I., Guilbaud C.,
RA Kedra D., Pan H.-Q., Seroussi E., Roe B.A., Plehl F.,
RA Collins J.E., Dunham I., Blomqvist E., Roe B.A., Plehl F.,
RA Dumanaki J.P.;
RT "Characterization of the human synpogyrin gene family.";
RL Hum. Genet. 103:131-141(1998).
RN 12
RP SEQUENCE FROM N.A.
RX MEDLINE=20057165; PubMed=10591208;
RA Dunham I., Hunt A.R., Collins J.E., Bruskewich R., Beare D.M.,
RA Clamp M., Smith L.J., Almscough R., Almeida J.P., Babbage A.K.,
RA Baggaley C., Bailey J., Barlow K.F., Bates K.N., Beasley O.P.,
RA Bird C.P., Blakey S.E., Bridgman A.M., Buck D., Burgess J.,
RA Burdill W.D., Burton J., Carder C., Carter N.P., Chen Y., Clark G.,
RA Clegg S.M., Cobley V.E., Cole G.G., Collier R.E., Connor R.,
RA Conroy D., Corry N.R., Coville G.J., Cox A.V., Davis J., Dawson E.,
RA Dhami P.D., Dockree C., Dodsworth S.J., Durbin R.M., Ellington A.G.,
RA Evans K.L., Fey U.M., Fleming K., French L., Garner A.A.,
RA Gilbert J.G.R., Goward M.E., Graffham D.V., Griffiths M.N.D., Hall C.,
RA Hall R.E., Hall-Tamlyn G., Heathcote R.W., Ho S., Holmes S.,
RA Hall S.E., Jones M.C., Kershaw J., Kimberley A.M., King A.,
RA Laird G.K., Langford C.F., Leversha M.A., Lloyd C., Lloyd D.M.,
RA Lavery J.D., Mashreghy-Mohammadi M., Matthews L.H., McCann O.T.,
RA McElroy J., McLaren S., McMurray A.A., Milne S.A., Mortimore B.J.,
RA Odell C.N., Pavitt R., Pearce A.V., Pearson D., Phillips B.J.C.T.,
RA Phillips S.H., Plumb R.W., Ramsey H., Ramsey Y., Rogers L., Ross M.T.,
RA Scott C.E., Sehra H.K., Skuce C.D., Smalley S., Smith M.L.,
RA Soderlund C., Spigson L., Steward C.A., Sultson J.E., Swann R.M.,
RA Vaudin M., Wall M., Wallis J.M., Whiteley M.N., Willey D.L.,
RA Williams L., Williams S.A., Williamson H., Wilmer T.E., Wilting L.,
RA Wright C.L., Hubbard T., Bentley D.R., Beck S., Rogers J., Shimizu N.,

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RA Minoshima S., Kawasaki K., Sasaki T., Asakawa S., Kudoh J.,
RA Shintani A., Shibuya K., Yoshizaki Y., Aoki N., Matsuyama S.,
RA Roe B.A., Chen F., Chu L., Crabtree J., Deschamps S., Do A., Do T.,
RA Dorman A., Fang F., Fu Y., Hu P., Hua A., Kenson S., Lai H., Lao H.I.,
RA Lewis J., Lewis S., Lin S.-P., Loh P., Malaj E., Nguyen T., Pan H.,
RA Phan S., Qi S., Qian Y., Ray L., Ren Q., Shauli S., Sloan D., Song L.,
RA Zhang Q., Wang Y., Wang Z., White J., Willingham D., Wu H., Yao Z.,
RA Zhan M., Zhang G., Chisoe S., Murray U., Miller N., Mink P.,
RA Fulton R., Johnson D., Bemis G., Bentley D., Bradshaw H., Bourne S.,
RA Cordes M., Du Z., Fulton L., Goela D., Graves T., Hawkins J.,
RA Hinds K., Kemp K., Latreille P., Layman D., Ozersky P., Rohlfing T.,
RA Schect P., Walker C., Wamsley A., Wohlmann P., Pepin K., Nelson J.,
RA Wilson R., Bedell J.A., Hillier L.W., Mardis E., Waterston R.,
RA Korf I., Emanuel B.S., Shaikh T., Kurahashi H., Saitta S.,
RA Budarf M.L., McDermid H.E., Johnson A., Wong A.C.C., Morrow B.E.,
RA Edelmann L., Kim U.J., Shibuya K., Simon M.I., Dumanaki J.P.,
RA Peyrard M., Kedra D., Seroussi E., Fransson I., Tapia I., Bruder C.E.,
RA O'Brien K.P., Wilkinson P., Bodenteich A., Hartman K., Hu X.,
RA Khan A.S., Lane L., Tiliakos Y., Wright H.;
RT "The DNA sequence of human chromosome 22.";
RL Nature 402:488-495(1999).
RN 13
RP SEQUENCE FROM N.A. (ISOPORN 1B).
RC TISSUE=Brain;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenman C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diachenko L., Marzetta K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Cabavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshylyuk S., Carninci P., Prange C.,
RA Rahn S.S., Loguettano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bosak S.A., McKernan P.J., McKernan K.J., Matek J.A., Guneratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Heaton E., Kettelman M., Madan A.C., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Buterfield Y.S.N., Krzywicki M.I., Skalski M., Smallie D.E.,
RA Schercher A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC 1- SUBCELLULAR LOCATION: Integral membrane protein.
CC 1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Name=1A;
CC IsoId=043759-1; Sequence=Displayed;
CC Name=1B;
CC IsoId=043759-2; Sequence=VSP_006332;
CC Name=1C;
CC IsoId=043759-3; Sequence=VSP_006331, VSP_006332;
CC 1- SIMILARITY: Belongs to the synpogyrin family.
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CC or send an email to license@ebi.ac.uk).
CC EMBL; AJ002305; CA005322.1; -
CC EMBL; AJ002304; CA005321.1; -
CC EMBL; AJ002303; CA005320.1; -
CC EMBL; AL022326; CA18451.1; -
CC EMBL; AL022326; CA18452.1; -
CC EMBL; AL022326; CA18453.1; -
CC EMBL; BC000731; AA000731.1; -
CC EMBL; HGNC:11498; SYNGR1.
CC MIM: 603925; -

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DR GC: GO:0005887; C: integral to plasma membrane; TAS.
 DR InterPro: IPR008253; Marvel.
 DR Pfam: PF01284; MARVEL; 1.
 KM Transmembrane; Synapse; Alternative splicing.
 FT TRANSMEM 24 44 POTENTIAL.
 FT TRANSMEM 72 92 POTENTIAL.
 FT TRANSMEM 104 124 POTENTIAL.
 FT TRANSMEM 149 169 POTENTIAL.
 FT VARSPLIC 1 33 MEGAYGAGKAGAGFDPYTLVROPHITLTVGVH -> MTLT
 EFGLEFDPMSIGSWTQRFMSVWRSPGCE (in isoform 1C).
 FT VARSPLIC 162 234 AGAVLAFAFORYOIGADSLAFSDYMDPDSMSMPAYVEP
 NMGDPDPMGCTGTCGAPNTFDPGQSGY -> SLTAA
 LAYRFFKDLSPQEHSTLFPASAP (in isoform 1B and isoform 1C).
 FT CONFLICT 203 203 /FtId=VSP_006332.
 FT SEQUENCE 234 AA; 25570 MW; 8B015CEBBD461E12 CRC64; MISSING (IN REF. 2).

Query Match 48.4%; Score 576.5; DB 1; Length 234;
 Best Local Similarity 48.8%; Pred. No. 4.1e-45;
 Matches 113; Conservative 32; Mismatches 73; Indels 13; Gaps 4;

QY 1 MEGAYGAGKAGAGFDPYTLVROPHITLTVGVHSCITYGEGSNHESKQMYCV 60
 1 MEGAYGAGKAGAGFDPYTLVROPHITLTVGVHSCITYGEGSNHESKQMYCV 60
 DB 1 FNRNEDACRYSAIGVLAFLASAFELVVDAYFPQISNATRKXIVGDLTFLMTFLMF 120
 61 YNRNPNACSYGVAVGVLAFLTCLLYALDVFYPOISSVKKRKAIVSDIGVSAFMAFLMF 120
 QY 121 VGFCFLTNQMAVNTPKD--VLVGADSVRAAITSFESFSGVLAFLAYORYAGVDD-- 176
 121 VGFCFLTNQMAVNTPKD--VLVGADSVRAAITSFESFSGVLAFLAYORYAGVDD-- 176
 DB 121 VGFCFLTNQMAVNTPKD--VLVGADSVRAAITSFESFSGVLAFLAYORYAGVDD-- 180
 121 VGFCFLTNQMAVNTPKD--VLVGADSVRAAITSFESFSGVLAFLAYORYAGVDD-- 180
 QY 177 FIONVVDPTPPNTAYASY-----PGASVDNYQCPPTQNAETTEGYQ 219
 177 FIONVVDPTPPNTAYASY-----PGASVDNYQCPPTQNAETTEGYQ 219
 DB 181 FSDQIMDSQSSMPYAFYEPNTGPDPMGCTGTCGAPNTFDPGQSGY 230
 181 FSDQIMDSQSSMPYAFYEPNTGPDPMGCTGTCGAPNTFDPGQSGY 230

RESULT 5
 SINGL_MOUSE STANDARD; PRT; 234 AA.
 ID SINGL_MOUSE STANDARD; PRT; 234 AA.
 AC 055100; Q9DC50;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Synaplogyrin 1.
 GN SYNGR1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RN [1]
 .SEQUENCE FROM N.A. (ISOFORM 1B).
 RA MEDLINE=98430994; PubMed=9760194;
 RA Kedar D., Pan H.-Q., Seroussi E., Franses I., Guilbaud C.,
 RA Collins J.E., Dunham I., Blennow E., Roe B.A., Piehl F.,
 RA Dumaneki J.P.;
 RA "Characterization of the human synaplogyrin gene family";
 RT Hum. Genet. 103:131-141(1998).
 RL [2]
 .SEQUENCE FROM N.A. (ISOFORMS 1A AND 1B).
 RP STRAIN=C57BL/6J; Tissue=Brain;
 RC MEDLINE=21085660; PubMed=11217851;
 RA Kawai U., Shimagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Aikawa T., Hara A., Fukunishi Y., Komoto H., Adachi U., Furukawa S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamataka I.,
 RA Saito T., Okazaki Y., Gotohori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batilov S., Casavant T.,
 RA Flitschmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nakai I., Pesole G., Quackenbush J.,

RA Schirral L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Maehio T.,
 RA Sakai K., Okido T., Furuno M., Kono H., Baldarelli R., Barch G.,
 RA Blake U., Boffelli D., Bojunga N., Carrinci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Guetlich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Saeki H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Toyooka K., Wang K.H., Weitz T., Whitaker C., Wilming L.,
 RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kontecki S.,
 RA Hayashizaki Y.;
 RA "Functional annotation of a full-length mouse cDNA collection";
 RT Nature 409:685-690(2001).
 RL Nature 409:685-690(2001).
 CC - SUBCELLULAR LOCATION: Integral membrane protein.
 CC - ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;
 CC Name=1A;
 CC IsoId=O55100-1; Sequence=Displayed;
 CC Name=1B;
 CC IsoId=O55100-2; Sequence=VSP_006333;
 CC - SIMILARITY: Belongs to the synaplogyrin family.
 CC -----
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DR EMBL, AJ002306; CAA05323.1; -
 DR EMBL, AK002972; BAB22487.1; -
 DR EMBL, AK010442; BAB26943.1; -
 DR MGI:1328323; Syngr1.
 DR InterPro: IPR008253; Marvel.
 DR Pfam: PF01284; MARVEL; 1.
 KM Transmembrane; Synapse; Alternative splicing.
 FT TRANSMEM 24 44 POTENTIAL.
 FT TRANSMEM 72 92 POTENTIAL.
 FT TRANSMEM 104 124 POTENTIAL.
 FT TRANSMEM 149 169 POTENTIAL.
 FT VARSPLIC 162 234 AGAVLAFAFORYOIGADSLAFSDYMDPDSMSMPAYVEP
 NMGDPDPMGCTGTCGAPNTFDPGQSGY -> SLTAA
 LAYRFFKDLSPQEHSTLFPASAP (in isoform 1B and isoform 1C).
 FT CONFLICT 203 203 /FtId=VSP_006332.
 FT SEQUENCE 234 AA; 25570 MW; 09566021DF35809A CRC64; MISSING (IN REF. 2).

Query Match 48.4%; Score 576.5; DB 1; Length 234;
 Best Local Similarity 49.8%; Pred. No. 4.1e-45;
 Matches 115; Conservative 30; Mismatches 73; Indels 13; Gaps 5;

QY 1 MEGAYGAGKAGAGFDPYTLVROPHITLTVGVHSCITYGEGSNHESKQMYCV 60
 1 MEGAYGAGKAGAGFDPYTLVROPHITLTVGVHSCITYGEGSNHESKQMYCV 60
 DB 1 FNRNEDACRYSAIGVLAFLASAFELVVDAYFPQISNATRKXIVGDLTFLMTFLMF 120
 61 YNRNPNACSYGVAVGVLAFLTCLLYALDVFYPOISSVKKRKAIVSDIGVSAFMAFLMF 120
 QY 121 VGFCFLTNQMAVNTPKD--VLVGADSVRAAITSFESFSGVLAFLAYORYAGVDD-- 176
 121 VGFCFLTNQMAVNTPKD--VLVGADSVRAAITSFESFSGVLAFLAYORYAGVDD-- 176
 DB 121 VGFCFLTNQMAVNTPKD--VLVGADSVRAAITSFESFSGVLAFLAYORYAGVDD-- 180
 121 VGFCFLTNQMAVNTPKD--VLVGADSVRAAITSFESFSGVLAFLAYORYAGVDD-- 180
 QY 177 FIONVVDPTPPNTAYASY-----PGASVDNYQCPPTQNAETTEGYQ 219
 177 FIONVVDPTPPNTAYASY-----PGASVDNYQCPPTQNAETTEGYQ 219
 DB 181 FSDQIMDSQSSMPYAFYEPNTGPDPMGCTGTCGAPNTFDPGQSGY 230
 181 FSDQIMDSQSSMPYAFYEPNTGPDPMGCTGTCGAPNTFDPGQSGY 230

RESULT 6
 SINGL_RAT STANDARD; PRT; 234 AA.
 ID SINGL_RAT STANDARD; PRT; 234 AA.
 AC 062876;

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DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 30-MAY-2000 (Rel. 39, Last annotation update)
DE Synaplogyrin 1 (p29).
GN SYNAPG1.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RX MEDLINE=96134029; PubMed=8557746;
RA Stenius K., Janz R., Suedhof T.C., Jahn R.;
RT "Structure of synaplogyrin (p29) defines novel synaptic vesicle
RT protein."
RL J. Cell Biol. 131:1801-1809(1995).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- TISSUE SPECIFICITY: Nervous system.
CC -1- SIMILARITY: Belongs to the synaplogyrin family.
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CC -----
DR EMBL: U9549; AAB17890.1; -
DR InterPro: IPR008253; MARVEL; 1.
DR Pfam: PF01284; MARVEL; 1.
KW Transmembrane; Synapse.
FT TRANSMEM 24 44 POTENTIAL.
FT TRANSMEM 72 92 POTENTIAL.
FT TRANSMEM 105 125 POTENTIAL.
FT TRANSMEM 149 169 POTENTIAL.
SQ SEQUENCE 234 AA; 25669 MW; B3038B64C49F31E1 CRC64;

Query Match 48.3%; Score 575.5; DB 1; Length 234;
Best Local Similarity 49.8%; Pred. No. 5.1e-45;
Matches 115; Conservative 30; Mismatches 73; Indels 13; Gaps 5;

QY 1 MESSAGAAKAGGSPDLRRLTQPOVAVARAVCLVFAIVSCYIGRGSNAHESKQMYCV 60
DB 1 MESSAGAGAGAGAFDPYTLVRQPTILRVSWVFSIVFGSTVMEGYLNPEESEEFCI 60
QY 61 FNRNEDACRYGSAIGVLAFLASAFPLVVDAYFPQISNATDRKYLVIQDILFSAIWTFLWF 120
DB 61 YNRNPACSYGVTVGLAFILCLVIALDVFYFQISSVKDRKAVLSDIGVSAFNAFWF 120
QY 121 VGCCELTNCAVYNNPKD--VVGADSVRAAITSFFSISKGVLASLAVQRYKAGYVD-- 176
DB 121 VGCCELTNCAVYNNPKD--VVGADSVRAAITSFFSISKGVLASLAVQRYKAGYVD-- 176
QY 121 VGCCELTNCAVYNNPKD--VVGADSVRAAITSFFSISKGVLASLAVQRYKAGYVD-- 176
DB 121 VGCCELTNCAVYNNPKD--VVGADSVRAAITSFFSISKGVLASLAVQRYKAGYVD-- 176
QY 177 FIGNYVDPPTDPTAYASY--PGASVD-----NYOCPPTQVARTTESGQ 219
DB 177 FIGNYVDPPTDPTAYASY--PGASVD-----NYOCPPTQVARTTESGQ 219
QY 181 FSGDYMDPQSDSMPAPAYEPASGSDPTMGSTYGHANAPDAE-PQGYQ 230
DB 181 FSGDYMDPQSDSMPAPAYEPASGSDPTMGSTYGHANAPDAE-PQGYQ 230

RESULT 7
SNG3_HUMAN STANDARD; PRT; 229 AA.
ID SNG3_HUMAN STANDARD; PRT; 229 AA.
AC Q43761;
DT 30-MAY-2000 (Rel. 39, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Synaplogyrin 3.
GN SYNAPG3.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]

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RP SEQUENCE FROM N.A.
RX MEDLINE=96430994; PubMed=9760194;
RA Kedra D., Pan H.-Q., Seroussi E., Fransson I., Gullbaud C.,
RA Collins J.E., Dunham I., Blennow E., Roe B.A., Piehl F.,
RA Dumaneki J.P.;
RT "Characterization of the human synaplogyrin gene family."
RL Hum. Genet. 103:131-141(1998).
RN [2]
RP REVISIONS.
RA Kedra D.;
RL Submitted (SEP-1999) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22386257; PubMed=12477932;
RA Straube R.L., Feinsold E.A., Grouse L.H., Derze J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Butow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Helel F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein W.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.C.,
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Woxley K.C., Hale S., Garcia A.M., Gay L.J., Huik S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butlerfield Y.S.N., Krzywinski M.T., Skalek A., Smallie D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Maiz M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- TISSUE SPECIFICITY: Expressed in brain and placenta.
CC -1- SIMILARITY: Belongs to the synaplogyrin family.
CC -----
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CC -----
DR EMBL: AJ002309; CAA05336.2; -
DR EMBL: BC014087; AAB14087.1; -
DR Genew: HGNC:11501; SYNAPG3.
DR MIM: 603927; -
DR GO: GO:0005887; C: integral to plasma membrane; TMS.
DR InterPro: IPR008253; MARVEL; 1.
DR Pfam: PF01284; MARVEL; 1.
KW Transmembrane.
FT TRANSMEM 30 50 POTENTIAL.
FT TRANSMEM 70 90 POTENTIAL.
FT TRANSMEM 105 125 POTENTIAL.
FT TRANSMEM 148 168 POTENTIAL.
SQ SEQUENCE 229 AA; 24555 MW; 0755812EDD4AD4C5 CRC64;

Query Match 41.3%; Score 492; DB 1; Length 229;
Best Local Similarity 45.8%; Pred. No. 1.8e-37;
Matches 104; Conservative 30; Mismatches 87; Indels 6; Gaps 3;

QY 1 MESSAGAAKAGGSPDLRRLTQPOVAVARAVCLVFAIVSCYIGRGSNAHESKQMYCV 60
DB 1 MESSAGAGAGAGAFDPYTLVRQPTILRVSWVFSIVFGSTVMEGYLNPEESEEFCI 60
QY 61 FNRNEDACRYGSAIGVLAFLASAFPLVVDAYFPQISNATDRKYLVIQDILFSAIWTFLWF 120
DB 61 FNRNEDACRYGSAIGVLAFLASAFPLVVDAYFPQISNATDRKYLVIQDILFSAIWTFLWF 120
QY 61 FNRNEDACRYGSAIGVLAFLASAFPLVVDAYFPQISNATDRKYLVIQDILFSAIWTFLWF 120
DB 61 FNRNEDACRYGSAIGVLAFLASAFPLVVDAYFPQISNATDRKYLVIQDILFSAIWTFLWF 120

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QY 121 VGFPGFLNQAATNPKVAVGA-DVPAATTFSSFFSGVSLAYQRYKAVDPIQ 179
DB 121 VGFPGFLNQAATNPKVAVGA-DVPAATTFSSFFSGVSLAYQRYKAVDPIQ 180
QY 180 NYVDPPTDPTAVASYPGAS-----VDNYQOPPTQNAET-EGYQPP 221
DB 181 ATGELSTGASQAAYPGYVSGVSGSTETYSPPFTETLDTSPKQYVP 227

RESULT 8
SNG4 HUMAN STANDARD; PRT; 234 AA.
AC 095473;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DB Synapcogyrin 4.
GN SNGR4.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxId=9606;
RN (1)
RA Kedia D., Dumanaki J.P.;
RT "Cloning of a novel member of synapcogyrin gene family."
RL Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- SIMILARITY: Belongs to the synapcogyrin family.
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CC -----
CC EMBL; AJ011733; CA009754.1; -
DR Genew; HGNC:11502; SNGR4.
DR InterPro; IPR008253; Marvel.
DR Pfam; PF01284; MARVEL; 1.
KW Transmembrane.
FT TRANSMEM 25 45 POTENTIAL.
FT TRANSMEM 66 86 POTENTIAL.
FT TRANSMEM 104 124 POTENTIAL.
FT TRANSMEM 145 165 POTENTIAL.
SQ SEQUENCE 234 AA; 25786 MW; 801134EAD840288F CRC64;

Query Match 27.7%; Score 329.5; DB 1; Length 234;
Best Local Similarity 35.5%; Pred. No. 9.5e-23;
Matches 70; Conservative 34; Mismatches 72; Indels 21; Gaps 2;

QY 19 RFLTPQVAVAVCLVAVLIVFSCIYGEYSNAHESKQMYCVFNRRNACRYSAIGVLA 78
DB 17 QFLRPKPTITVEFGEVSLIVISLTDGYQNKESPOLCHILNSNSVACSPAVGAGFLA 76
QY 79 FLAFAFLVAVAYPQISNATDRKYIVIGDILFSALMTFLMPFGFGLTMQNAVTPKQV 138
DB 77 FLSCATFLVLDPTQSTRANGTRFKTAFOULDFILVLAVAVWFGFCFLAQOMQHSPEK 136
QY 139 LVGADSVAAATTFSSFFSGVSLAYQRYKAVDPIQYVD----- 183
DB 137 ILGSSSQQAIAAFEFSLIVIFQAVLAFQDLRNDAPVYKRFLEGGWLTTLPLPSAN 186
QY 184 -----PTDENT-AYAS 194
DB 197 SPVNPFTTGPNSLSYAS 213

RESULT 9
SNG1 CAEBL STANDARD; PRT; 247 AA.

```

```

AC 076735; Q22340;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 30-MAY-2000 (Rel. 39, Last annotation update)
DE Synapcogyrin homolog.
GN SNG-1 OR T08A9.3.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabdiltida; Rhabditioidea;
OC Rhabdiltidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxId=6239;
RN (1)
RA SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RA Nonet M.;
RT "Visualization of presynaptic terminal specializations in live C.
RT elegans with synaptic vesicle protein-GFP fusions."
RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
RN (2)
RN SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RA Pauley A.;
RL Submitted (NOV-1995) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- SIMILARITY: Belongs to the synapcogyrin family.
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; AF079373; AAC27798.1; -
DR EMBL; U00417; AAA81418.2; -
DR PIR; T43324; T43324.
DR WormPep; T08A9.3; CE04918.
DR InterPro; IPR008253; Marvel.
DR Pfam; PF01284; MARVEL; 1.
KW Transmembrane.
FT TRANSMEM 25 45 POTENTIAL.
FT TRANSMEM 69 89 POTENTIAL.
FT TRANSMEM 105 125 POTENTIAL.
FT TRANSMEM 151 171 POTENTIAL.
SQ SEQUENCE 247 AA; 26792 MW; F199D0E8DEFLIEAO CRC64;

Query Match 21.6%; Score 257; DB 1; Length 247;
Best Local Similarity 27.2%; Pred. No. 3.7e-16;
Matches 67; Conservative 46; Mismatches 95; Indels 38; Gaps 6;

QY 5 AYGAAGAGSPDLRFLTPQVAVAVCLVAVLIVFSCIYGEYSNAHESKQMYCVFNRRN 64
DB 6 AYGAAGAGSPDLRFLTPQVAVAVCLVAVLIVFSCIYGEYSNAHESKQMYCVFNRRN 65
QY 65 EDACRYGSAIGVLAFLAFAFLVAVAYPQISNATDRKYIVIGDILFSALMTFLMPFGFC 124
DB 66 SSTCSFATVAVGFPAVCAIVLIVDAKMDQISSVTRRAVLADLVVSAITFAFLIGPF 125
QY 125 FLTNG---WAVTNPDVAVGADSVAAATTFSSFFSGVSLAYQRYKAG----- 173
DB 126 TWFSFLSAFEVDEDDENPTKTNNAFGLSLSLSLAAGAAFPKRRYEGNQAHTHPN 185
QY 174 -----VDPEICNYVDPT-----PDENTAYASYPGASVDNYQOP---PTQNA 212
DB 186 YDEHFGVSTDPVQDGYGVGDSTGIGHVGAAPPQSSYS--GAAPQWTQCPSPNRYTO-- 241
QY 213 ETTGCV 218
DB 242 --SBG 245

RESULT 10
SNG4 MOUSE

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QY 113 ALMTFLMVFGEFLTNQMA-----VTNPKDVLV-----GADSVR 146
DB 122 VVFSFLLVLWG---SSAMAKGLSDVKVATDPKREVLILMSACKQPSNKCMAHSPVMSILN 177
QY 147 AAITFSFISFSGVGLASLAYORRYKAGVDDFIQNYV-DPTDPNTAYASPGASVDNY-Q 204
DB 178 TSVVFGFLNFLMA--GNINWFVKETGMHSSGGRYLSDDPMKHSSSY--NQGSDYNDSDYGS 234
QY 205 QPPTQNAE--TTE--GYQP 220
DB 235 SSGYSQOASLGPSTDEFGQP 255

RESULT 12
SYNP_RAT ID SYNP_RAT STANDARD; PRT; 265 AA.
AC P22831; Q9ERH1;
DT 01-AUG-1991 (Rel. 19, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Synaptoporin.
GN SYNPR.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_Taxid=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain; PubMed=220653;
RA Knaus P., Marguete-Pouey B., Scherer H., Betz H.;
RT "Synaptoporin, a novel putative channel protein of synaptic
RL vesicles."
RL Neuron 5:453-462(1990).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley; TISSUE=Dorsal root ganglion;
RA Xiao H., Huang Q., Zhang F., Yang Z., Chen Z., Han Z., Zhang X.;
RT "Novel genes expressed in rat dorsal root ganglion."
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: Intrinsic membrane protein of small synaptic
CC vesicles. Probable vesicular channel protein.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein. Synaptic
CC vesicles.
CC -1- TISSUE SPECIFICITY: Central nervous system.
CC -1- SIMILARITY: Belongs to the synaptophysin/synaptobrevin family.
CC -----
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CC -----
DR EMBL: AF306459; AAC33231.1;
DR PIR: JH0300; JH0300.
DR InterPro: IPR008253; Marvel.
DR InterPro: IPR001285; Synaptophysin.
DR Pfam: PFO1284; MARVEL.1.
DR PRINTS: PR00220; SYNAPTOPHYSN.
DR PROSITE: PS00604; SYNAPTOP; 1.
KM Synapse; Transmembrane; Synaptosome; Glycoprotein; Repeat;
KM Phosphorylation.
FT DOMAIN 1 4 CYTOPLASMIC (POTENTIAL).
FT TRANSSEM 5 25 POTENTIAL.
FT DOMAIN 26 81 VESICULAR (POTENTIAL).
FT TRANSSEM 82 102 POTENTIAL.
FT DOMAIN 103 114 CYTOPLASMIC (POTENTIAL).
FT TRANSSEM 115 135 POTENTIAL.
FT DOMAIN 136 177 VESICULAR (POTENTIAL).
FT TRANSSEM 178 198 POTENTIAL.
FT DOMAIN 199 265 CYTOPLASMIC (POTENTIAL).

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FT DOMAIN 210 242 5 X APPROXIMATE REPEATS.
FT REPEAT 210 214 1.
FT REPEAT 222 226 2.
FT REPEAT 227 231 3.
FT REPEAT 232 236 4.
FT REPEAT 238 242 5.
FT CARBOHYD 33 33 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 38 38 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 177 177 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT MOD_RES 212 212 PHOSPHORYLATION (POTENTIAL).
FT MOD_RES 220 220 PHOSPHORYLATION (POTENTIAL).
FT CONFLICT 68 69 KL -> NV (IN REF. 1).
FT CONFLICT 167 167 A -> G (IN REF. 1).
SQ SEQUENCE 265 AA; 29107 MW; F121BDB879F71A28 CRC64;

Query Match 8.5%; Score 101; DB 1; Length 265;
Best Local Similarity 19.9%; Pred. No. 0.053;
Matches 38; Conservative 36; Mismatches 73; Indels 44; Gaps 7;

QY 53 ESKQMYCVFNRNEDACRYGSAIGVLAFAFLVDAYFPQISNATDRKYVIGDLIFS 112
DB 64 KERQKLVGDSSSAFFVTAVFAFLYSLATVYIFQNKYRNRNRPDL--DPIVT 121
QY 113 ALMTFLMVFGEFLTNQMA-----VTNPKDVLV-----GADSVR 146
DB 122 VVFSFLLVLWG---SSAMAKGLSDVKVATDPKREVLILMSACKQPSNKCMAHSPVMSILN 177
QY 147 AAITFSFISFSGVGLASLAYORRYKAGVDDFIQNYV-DPTDPNTAYASPGASVDNYQP 206
DB 178 TSVVFGFLNFLMA--GNINWFVKETGMHSSGGRYLS--DPMKHSS-----SYNG 225
QY 207 PFTQNAETEG 217
DB 226 GYNQDSYSSG 236

RESULT 13
SYNP_MOUSE ID SYNP_MOUSE STANDARD; PRT; 265 AA.
AC Q8BG81; Q8C5U4; Q9DB89;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Synaptoporin.
GN SYNPR.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
RC STRAIN=C57BL/6J;
RC TISSUE=Cerebellum, Olfactory organ, and Spinal cord;
RA Okazaki Y., Furuno M., Kaenkawa T., Adachi J., Bono H., Kondo S.,
RA Nixakido I., Osato N., Saito R., Suzuki H., Yamanaoka I., Kiyosawa H.,
RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schobach C., Gotohori T.,
RA Baldarelli R., Hill D.P., Bull C., Hume D.A., Quackebush J.,
RA Schirini L.M., Kanapin A., Matsuda H., Batilov S., Beisel K.W.,
RA Blake U.A., Bradt D., Brusic V., Chochia C., Corradi L.E., Cousins S.,
RA Dalla E., Dragan T.A., Fletcher C.F., Forrest A., Frazer K.S.,
RA Gaasterland T., Gariboldi M., Giesi C., Godzik A., Gough U.,
RA Grimmond S., Guelinich S., Hirokawa N., Jackson I.D., Jarvis E.D.,
RA Kanai A., Kawai H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA Kongsawa A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
RA Nagashima T., Nimata K., Okido T., Pavan W.J., Partea G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius U.V., Qi D., Ramachandran S.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sandelin A., Schneider C., Sempile C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
RA Wilming L.G., Wyszaw-Boris A., Yanagisawa M., Yang I., Yang L.,

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RA Yuan Z., Zaveloff M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA Hirozane Kishikawa T., Kono H., Nakamura M., Sakazume N., Sato K.,
RA Shiraki T., Maki K., Kawai J., Aizawa K., Arikawa T., Fukuda S.,
RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh N., Kagawa I.,
RA Miyazaki A., Sakai K., Sakaki D., Shibata K., Shingawa A.,
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA Birney E., Hayashizaki Y.,
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs."
RL Nature 420:563-573(2002).
RN
RP
RC
RX MEDLINE=22388257; PubMed=12477932;
RA Krausner R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Lonnellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McMan P.J., McKernan K.C., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.T., Skalska U., Smalins D.E.,
RA Schnerch A., Schen J.E., Jones S.J.M., Maira M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC
CC -1- FUNCTION: Intrinsic membrane protein of small synaptic
CC vesicles. Probable vesicular channel protein (by similarity).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein. Synaptic
CC vesicles (by similarity).
CC
CC -1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=1;
CC IsoId=Q8BGN8-1; Sequence=Displayed;
CC Name=2;
CC IsoId=Q8BGN8-2; Sequence=VSP_008550;
CC
CC -1- SIMILARITY: Belongs to the synaptophysin/synaprobrevin family.
CC
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CC
CC EMBL; AK005132; BAB2831.1; -
CC EMBL; AK032442; BAC27871.1; -
CC EMBL; AK049661; BAC33864.1; -
CC EMBL; AK078223; BAC3781.1; -
CC EMBL; BC026512; AAH26512.1; -
CC WGD; MGI:1919253; Symp.
CC InterPro; IPR008253; Symp.
CC InterPro; IPR001285; Synaptophysin.
CC Pfam; PF01284; MARVEL; 1.
CC PRINTS; PR00220; SYNAPTOPHYSN.
CC PROSITE; PS00604; SYNAPTOP; 1.
CC
CC Synapse; Transmembrane; Synaptochrome; Glycoprotein; Repeat;
CC Alternative splicing.
CC
CC DOMAIN 1 4 CYTOPLASMIC (POTENTIAL).
CC
CC TRANSMEM 5 25 POTENTIAL.
CC
CC DOMAIN 26 81 VESICULAR (POTENTIAL).
CC
CC TRANSMEM 82 102 POTENTIAL.
CC
CC DOMAIN 103 114 CYTOPLASMIC (POTENTIAL).
CC
CC TRANSMEM 115 135 POTENTIAL.

FT DOMAIN 136 177 VESICULAR (POTENTIAL).
FT TRANSMEM 178 198 POTENTIAL.
FT DOMAIN 199 265 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 210 242 5 X APPROXIMATE REPEATS.
FT REPEAT 210 214 1.
FT REPEAT 222 226 2.
FT REPEAT 227 231 3.
FT REPEAT 232 236 4.
FT REPEAT 238 242 5.
FT CARBOHYD 33 33 N-LINKED (GLCNAC...) (POTENTIAL).
FT CARBOHYD 38 38 N-LINKED (GLCNAC...) (POTENTIAL).
FT VARSPLIC 1 8 MCWIFAP -> MDPVSQVASAGTFRAKEPLAFRLALDEL
FT (in isoform 2).
FT FTId=VSP_008550.
FT CONFLICT 230 230 E -> K (in Ref. 1; BAC37181).
FT SEQUENCE 265 AA; 29228 MW; 81Dd73A422615B5 CRC64;
SQ
Query Match 8.3%; Score 99; DB 1; Length 265;
Best Local Similarity 19.9%; Pred. No. 0.08;
Matches 38; Conservative 35; Mismatches 74; Indels 44; Gaps 7;
QY 53 ESKMVCVFRRNEDACRYGSAIGLAFGLAFGLVYDAPFQSNADRKIVYIGDLFS 112
DB 64 KEQKKLVGDSSSAEFVTVAFVFLSLATVITFQNKYRNNRGLI-DITVT 121
QY 113 ALMFLMFLVFGCEFLTNOMA-----VTNPKDVLV-----GADSVR 146
DB 122 VVFEFLVLVG-----SSAMAKGLSPVKVATDPKVELILMSACKQPSNCKMAVSPVMSLN 177
QY 147 AATFSPFSITPSKQVLAISLAKRYKAGVDVFIQNYVDPTDPTATVASYGASVDNYQOP 206
DB 178 TSVVFGLMFLVLA--GNIVFVEKTEGMHSSGGGRYLS--DPWEKHS-----SYNOG 225
QY 207 PFTQNAETEG 217
DB 226 RYNQESYSSG 236
RESULT 14
SFPH_BOVIN ID ID SYPH_BOVIN STANDARD; PRT; 313 AA.
AC P20488;
DT 01-FEB-1991 (Rel. 17, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Synaptophysin (Major synaptic vesicle protein p38).
GN SYP.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=89093117; PubMed=2492017;
RA Johnson P.A., Jahn R., Stedhof T.C.;
RT "Transmembrane topography and evolutionary conservation of
RT synaptophysin."
RL J. Biol. Chem. 264:1266-1273(1989).
CC
CC -1- FUNCTION: Possibly involved in structural functions as organizing
CC other membrane components or in targeting the vesicles to the
CC plasma membrane.
CC -1- SUBUNIT: Homohexamer or homotetramer.
CC -1- SUBCELLULAR LOCATION: Integral membrane protein. Synaptic
CC vesicles.
CC -1- TISSUE SPECIFICITY: Characteristic of a type of small (30-80 nm)
CC neurosecretory vesicles, including presynaptic vesicles, but also
CC vesicles of various neuroendocrine cells of both neuronal and
CC epithelial phenotype.
CC -1- DOMAIN: The calcium-binding activity is thought to be localized in
CC the cytoplasmic tail of the protein.
CC -1- SIMILARITY: Belongs to the synaptophysin/synaprobrevin family.

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DR EMBL; M22967; AAA30767.1; ALT_INIT.
DR InterPro; IPR008253; Marvel.
DR InterPro; IPR001285; Synaptophysin.
DR Pfam; PF01284; MARVEL_1.
DR PRINTS; PR00220; SYNAPTOPHYSN.
DR PROSITE; PS00604; SYNAPTOP; 1.
KM Calcium-binding; Synapse; Glycoprotein; Transmembrane;
KM Nerve; Synaptosome; Repeat.
FT DOMAIN 1 25 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 26 49 POTENTIAL.
FT DOMAIN 50 106 VESICULAR (POTENTIAL).
FT TRANSMEM 107 130 POTENTIAL.
FT DOMAIN 131 137 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 138 161 VESICULAR (POTENTIAL).
FT TRANSMEM 162 199 POTENTIAL.
FT TRANSMEM 200 223 POTENTIAL.
FT DOMAIN 224 313 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 254 304 REPEATS; GLY/TVR-RICH.
FT CARBOHYD 59 59 N-LINKED (GLCNAC...) (POTENTIAL).
FT CARBOHYD 99 99 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 313 AA; 33910 MW; 3D787D428304587 CRC64;

Query Match 7.9%; Score 94.5; DB 1; Length 313;
Best Local Similarity 19.8%; Pred. No. 0.25;
Matches 56; Conservative 46; Mismatches 98; Indels 91; Gaps 16;

QY 11 AGGQFRLRRFLTPQVAVRACVFLVLS-----C----- 42
DB 15 AGGQF--RVKKEPLGFKVQLQWFAIFAFATGSGYSGELQSLVDANKTKDNLIEVF 71
QY 43 -----IYGEQSNHESKQYCVENRNEACRGSAIGVLAFLASAFLLVDAVFQ 94
DB 72 EYPRLEHVFEMAPTCGGDKKIFIVGNYSSEA-EFFVAVAVAFILSMGALATYIFLGN 130
QY 95 ISNATDRKYLIVGDLFLSALMTPLMEYGFCLTNQNA-----VTNPKDVLV----- 141
DB 131 KYRENKGPML--DFLATAVFAFMWLVSS--SSANAKGLSDVRAKATIDENIKGNVCH 184
QY 142 -----ADSVRAITSPFSPFISFGVLAISAYORYKAG-VDDPIQ---NYVDP 184
DB 185 QPQNTCKELADPYTSGANTSVVGFNLVLNM--VGNLMFVKETGMNAAPFLRAPPAPEK 242
QY 185 TPQENTAY--ASY--PG--ASVDNY-----QQPFTQNAET-TEGYQPPPV 224
DB 243 QPAPGADYAGQAGYGGQPGQSYGPDQGYQPDYQGFASGGGQYGGDY 295

RESULT 15
CLF4_MOUSE STANDARD; PRT; 208 AA.
AC Q8CJ61; Q8K143;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Chemokine-like factor super family member 4.
GN CKLF3F4.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-Spleen;
RA Han W., Ding P., Wang L., Wang Y., Qiu X., Chen Y., Tan Y., Song Q.,
RA Zhang Y., Ma D.;

RL Submitted (FE8-2002) to the EMBL/GenBank/DBJ databases.

RN SEQUENCE FROM N.A.
RP STRAIN=FVB/N; TISSUE=Colon;
RC MEDLINE=22388257; Pubmed=12477932;
RA Strauberg R.L., Feinberg E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Stenzen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.L., Wang Y., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Schetz T.E.,
RA Brownstein M.J., Udwin T.B., Tohyuki S., Carninci P., Prange C.,
RA Rana S.S., Loggiano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McKernan P.U., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.U., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butlerfield Y.S.N., Krzywicki M.I., Skalska U., Smalhus D.E.,
RA Scherren A., Schein J.E., Jones S.U.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
CC -1- SIMILARITY: Belongs to the chemokine-like factor family.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC or send an email to license@isb-sib.ch).

Query Match 7.3%; Score 87; DB 1; Length 208;
Best Local Similarity 26.7%; Pred. No. 0.74;
Matches 46; Conservative 22; Mismatches 56; Indels 48; Gaps 10;

QY 33 LVFALIVFSCIYGEYSNHSKQY-----CYFNRENACRGSAIGVLAFLASAFLL 86
DB 62 VILALIAFICI--ETIMCSPCEGLYFEFVSC-----SAFVTVGVLLIFSL 107
QY 87 VVDAYFPQIS-NATDRKYLIVGDLFLSALMTPLMEYGFCLTNQNAATNPKDVLVGDADV 145
DB 108 NIDHRIPIQINMLT-----DLVNTGLSTFFFTIASIVL---AALNHK---TGAEI- 151
QY 146 RAATFSPFISFGVLAISAYORYKAGV-----DDPIQ---NYVDP 187
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Search completed: April 7, 2004, 11:56:50
Job time : 19 secs


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Qy      481  CTGTAGAGGCGAGCTACCTTCAAGCTTCTTTCATCTTCTGAGGAGTGTGCTGACCT 540
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Qy      1321  GGGAGAGGCTTGTGCTGACCAACCCAGCTTATATATATTTGCAAGTGTACTTAG 1380

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Qy      1441  TATAAATCGTGGGAGATGCCCGGCTGGAGTCTGTTTGAAGAGCAATTAATGTTT 1500
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Qy      1501  TCTCATTCAAAG 1512
Db      1501  TCTCATTCAAAG 1512

RESULT 3
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ID      AAC58232 standard; cDNA; 1512 BP.
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AC      AAC58232;
XX
DT      25-JAN-2001 (first entry)
XX
DE      Human PRO615 nucleotide sequence SEQ ID NO:15.
XX
KW      Human; tumour; diagnosis; neoplastic disease; identification; cancer;
KW      tumorigenesis; detection; neoplastic cell growth; proliferation;
KW      cytotoxic; antiinflammatory; immunomodulatory; inflammatory disorder;
KW      immunological disorder; ss.
XX
OS      Homo sapiens.
XX
EN      MO200053754-A1.
XX
PD      14-SEP-2000.
XX
PF      06-JAN-2000; 2000MO-US000277.
XX
PR      08-MAR-1999; 99MO-US005028.
PR      12-MAR-1999; 99US-0123957P.
PR      29-MAR-1999; 99US-0126773P.
PR      21-APR-1999; 99US-0130232P.
PR      28-APR-1999; 99US-0131445P.
PR      05-OCT-1999; 99MO-US023089.
PR      30-NOV-1999; 99MO-US028313.
PR      02-DEC-1999; 99MO-US028551.
PR      02-DEC-1999; 99MO-US028564.
PR      30-DEC-1999; 99MO-US031243.
PR      30-DEC-1999; 99MO-US031274.
XX
PA      (GETH ) GENENTECH INC.
XX
PI      Baker KP, Desauvage FJ, Goddard A, Gurney AL, Klein RD, Roy MA;
PI      Wood WI;
XX
DR      WPI; 2000-572269/53.
XX
P1      P-PSDB; AAB24048.
XX
PT      New isolated antibody for use in compositions and methods for the
PT      diagnosis and treatment of neoplastic cell growth and proliferation in
PT      mammals, including humans, and in monitoring tumor treatment.
XX
PS      Claim 50; Fig 15; 195pp; English.
XX
CC      The present invention describes an isolated antibody (Ab) that binds to
CC      one of the human proteins (P) designated PRO213, PRO1330, PRO1449,
CC      PRO327, PRO324, PRO351, PRO615, PRO531, PRO364, PRO618,
CC      PRO722, PRO703, PRO792 or PRO474. The Ab can be used in compositions and
CC      methods for the diagnosis and treatment of neoplastic cell growth and
CC      proliferation in mammals, including humans. Genes and polypeptides
CC      encoded by them, that are amplified in the genome of a tumour cell, can
CC      be identified and are useful targets for the treatment and prevention of
CC      certain cancers and may be used to monitor tumour treatment. Compounds

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CC that inhibit the expression or activity of the identified polypeptides
 CC can be identified and used as antagonists. Benign or malignant tumours,
 CC inflammatory disorders and immunological disorders can be treated.
 CC AAC58123 to AAC58224 represent hybridisation probes and PCR primers used
 CC in the isolation of the human PRO sequences. AAC58225 to AAC58241 and
 CC AAC24041 to AAC24056 represent human PRO polynucleotide and protein
 CC sequences given in the exemplification of the present invention
 XX

Sequence 1512 BP; 246 A; 482 C; 446 G; 338 T; 0 U; 0 Other;

Query Match 100.0%; Score 1512; DB 3; Length 1512;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 121 CGCAGGTGTGGCGCGCGCGCTGTGCTTGGCTTTCGCTTGATGTGTCTCTGCACT 180
DB 121 CGCAGGTGTGGCGCGCGCGCTGTGCTTGGCTTTCGCTTGATGTGTCTCTGCACT 180
QY 181 ATGGAGAGGCGTACAGCAATGCCACAGATCTAGACAGATGATGCTGCTGTTCAACGCA 240
DB 181 ATGGAGAGGCGTACAGCAATGCCACAGATCTAGACAGATGATGCTGCTGTTCAACGCA 240
QY 241 ACGAGATGCTGCTGCTGCTATGGAGAGTGCATCGGGAGTGTGCTGCTTCTGAGCT 300
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QY 361 TGGTCACTGTGACCTGCTCTTCAAGCTCTGAGACCTTCTGTGTGTGTGTGTCT 420
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DB 1021 CCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1080
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DB 1501 TCTCATTTCAAG 1512

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RESULT 4
 ACD42560
 ID ACD42560 standard; cDNA, 1512 BP.
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 AC ACD42560;
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 DT 09-SEP-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO615 cDNA.
 XX
 KM Human; secreted and transmembrane protein; PRO; virucide; gene therapy;
 KM cell death; growth induction cascade; blood coagulation cascade;
 XX viral infection; gene; ss.
 OS Homo sapiens.
 XX
 PN US2003050239-A1.
 PD
 XX
 PD 13-MAR-2003.
 XX
 PF 15-OCT-2001; 2001US-00978191.
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 PR 17-OCT-1997; 97US-0062250P.
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PR 05-JAN-1999; 98US-00254455.
PR 08-JAN-1999; 98US-00254455.
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PR 16-JUN-1999; 98US-0139557P.
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PR 28-JUL-1999; 98US-0146222P.
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PR 05-JAN-2000; 2000US-0000219.
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PR 11-FEB-2000; 2000US-0000376.
PR 18-FEB-2000; 2000US-0003565.
PR 24-FEB-2000; 2000US-0004341.
PR 02-MAR-2000; 2000US-0005004.
PR 10-MAR-2000; 2000US-0005841.
PR 21-MAR-2000; 2000US-0006319.
PR 30-MAR-2000; 2000US-0007532.
PR 17-MAY-2000; 2000US-0008435.
PR 22-MAY-2000; 2000US-0013705.
PR 30-MAY-2000; 2000US-0014941.


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XX DE Novel human secreted and transmembrane protein PRO615 cDNA.
XX
XX KM Human; secreted and transmembrane protein; PRO; antiinflammatory;
XX KM antiarteriosclerotic; cardiant; anti-infectivity; anti-HIV; cytoskeletal;
XX KM antidiabetic; gene therapy; inflammatory disease; organ failure;
XX KM atherosclerosis; cardiac injury; infertility; birth defect;
XX KM premature aging; AIDS; cancer; diabetic complication; chromosome mapping;
XX KM gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;
XX KM tissue typing; gene; ss.
OS Homo sapiens.
XX
XX FN US2002192706-A1.
XX
XX PD 19-DEC-2002.
XX
XX PF 24-OCT-2001; 2001US-00999832.
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XX 17-OCT-1997; 97US-0062250P.
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XX PR 27-MAR-1998; 98US-0079728P.
XX PR 27-MAR-1998; 98US-0079786P.
XX PR 30-MAR-1998; 98US-0079920P.
XX PR 30-MAR-1998; 98US-0079923P.
XX PR 31-MAR-1998; 98US-0080105P.
XX PR 31-MAR-1998; 98US-0080107P.
XX PR 31-MAR-1998; 98US-0080165P.
XX PR 01-APR-1998; 98US-0080327P.
XX PR 01-APR-1998; 98US-0080328P.
XX PR 01-APR-1998; 98US-0080333P.
XX PR 01-APR-1998; 98US-0080334P.
XX PR 08-APR-1998; 98US-0081049P.
XX PR 08-APR-1998; 98US-0081070P.
XX PR 08-APR-1998; 98US-0081071P.
XX PR 09-APR-1998; 98US-0081195P.
XX PR 09-APR-1998; 98US-0081203P.
XX PR 09-APR-1998; 98US-0081229P.
XX PR 15-APR-1998; 98US-0081817P.
XX PR 15-APR-1998; 98US-0081819P.
XX PR 15-APR-1998; 98US-0081838P.
XX PR 15-APR-1998; 98US-0081952P.
XX PR 15-APR-1998; 98US-0081955P.
XX PR 21-APR-1998; 98US-0082568P.
XX PR 21-APR-1998; 98US-0082569P.
XX PR 22-APR-1998; 98US-0082700P.
XX PR 22-APR-1998; 98US-0082704P.
XX PR 22-APR-1998; 98US-0082797P.
XX PR 22-APR-1998; 98US-0082804P.
XX PR 23-APR-1998; 98US-0082796P.
XX PR 07-OCT-1998; 98WO-US021141.
XX PR 20-NOV-1998; 98WO-US024655.
XX PR 05-JAN-1999; 99WO-US000106.
XX PR 08-MAR-1999; 99WO-US005028.

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PR 10-MAR-1999; 99WO-US005190.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012253.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 05-JAN-2000; 99WO-US031274.
PR 06-JAN-2000; 2000WO-US000217.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034955.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 28-JUN-2001; 2001WO-US021065.
PR 03-UTL-2001; 2001WO-US021735.

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(GETH) GENENTECH INC.

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XX PA Ahkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
XX PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gertlesen ME,
XX PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
XX PI Kijavrin IJ, Kuo SS, Napier MA, Pan J, Pont NF, Roy MA, Shelton DL,
XX PI Stewart TA, Tumas D, Williams PM, Wood WT;
XX
XX WPI; 2003-328660/31.
XX DR P-PSDB; AB072217.

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XX New secreted and transmembrane nucleic acids and polypeptides, designated as PRO, useful for treating inflammation, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, or cancer.

Claim 2; Fig 60; 453pp; English.

XX The invention describes an isolated nucleic acid (I) comprising, or which is at least 80 % sequence identity to, or the full-length coding sequence of, any of 118 300-2100 nucleotide sequences, which encodes its corresponding PRO polypeptide selected from 118 100-700 amino acid sequences, all given in the specification. The nucleic acids and polypeptides are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, or diabetic complications. The nucleic acids are useful as hybridization probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. This sequence encodes a novel human secreted and transmembrane PRO polypeptide

XX Sequence 1512 BP; 246 A; 482 C; 446 G; 338 T; 0 U; 0 Other;

Query Match 100.0%; Score 1512; DB 7; Length 1512;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 781 TTCCCATCAGGCTCTCTGAACTGCGACCCCTCTCTTCACTGTCATCTCTGTCAGC 840
Db 781 TTCCCATCAGGCTCTCTGAACTGCGACCCCTCTCTTCACTGTCATCTCTGTCAGC 840
QY 841 TGACACACAGCTAGAGAGCTTCATAGCTTGGCGGGGGCTGGCAGAGCCACACCCCAAGT 900
Db 841 TGACACACAGCTAGAGAGCTTCATAGCTTGGCGGGGGCTGGCAGAGCCACACCCCAAGT 900
QY 901 CCTGTGCGCAGAGAGGCTTCACTGTCAGGCTCTCTCTCAAGGACCTTTAGAGAGG 960
Db 901 CCTGTGCGCAGAGAGGCTTCACTGTCAGGCTCTCTCTCAAGGACCTTTAGAGAGG 960
QY 961 TTTTAGCTAGTGTCTTTCTCTGCTTTTAATGACCTGAGCCCGCTGACGTGCTAAG 1020
Db 961 TTTTAGCTAGTGTCTTTCTCTGCTTTTAATGACCTGAGCCCGCTGACGTGCTAAG 1020
QY 1021 CCAGCAGGTGCGCCATGCTACTGACAAAGCTTCCAGCTTCCCGCGCGCGGCTGAGG 1080
Db 1021 CCAGCAGGTGCGCCATGCTACTGACAAAGCTTCCAGCTTCCCGCGCGCGGCTGAGG 1080
QY 1081 CGTGGAGCGCGCTATTAATCTGCGCTTCTGCGCAAGACTGCGGGGCGCATCACCTGC 1140
Db 1081 CGTGGAGCGCGCTATTAATCTGCGCTTCTGCGCAAGACTGCGGGGCGCATCACCTGC 1140
QY 1141 CCTGTGCGAGGAGCGGACCGGACAGGCTTGTGCTCTGCTCACTGAGTTTGTCTCTGTC 1200
Db 1141 CCTGTGCGAGGAGCGGACCGGACAGGCTTGTGCTCTGCTCACTGAGTTTGTCTCTGTC 1200
QY 1201 CCACCTGCTGATGATCTGCGGGGCGCACACCTGCGGGGCGCATCACCTGC 1260
Db 1201 CCACCTGCTGATGATCTGCGGGGCGCACACCTGCGGGGCGCATCACCTGC 1260
QY 1261 TGGTGTAGAGGCGGGGCTGCTGCTCATGGAATTCTCTCTTCCACCCCTGCGAGCA 1320
Db 1261 TGGTGTAGAGGCGGGGCTGCTGCTCATGGAATTCTCTCTTCCACCCCTGCGAGCA 1320
QY 1321 GGGAGAGGCTTTGCTGACAAACCCAGCTTTATGTAATATCTGACGTGTAATTAG 1380
Db 1321 GGGAGAGGCTTTGCTGACAAACCCAGCTTTATGTAATATCTGACGTGTAATTAG 1380
QY 1381 GAAGCCTGGGAGAGGCGAGGGGCTGCCATGCTCCAGACTCTGTGCGCAGTGTAT 1440
Db 1381 GAAGCCTGGGAGAGGCGAGGGGCTGCCATGCTCCAGACTCTGTGCGCAGTGTAT 1440
QY 1441 TATTAATCGTGGGAGGATCCCGGCTGCGATGCTTTGGAGACGGAATTAATGTT 1500
Db 1441 TATTAATCGTGGGAGGATCCCGGCTGCGATGCTTTGGAGACGGAATTAATGTT 1500
QY 1501 TCTCATTCAAAG 1512
Db 1501 TCTCATTCAAAG 1512

RESULT 8
ACA66140
ID ACA66140 standard, cDNA, 1512 BP.
XX
AC ACA66140;
XX
DT 24-JUN-2003 (first entry)
XX
DE Human cDNA encoding secreted/transmembrane protein PRO615.
XX
KW Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW malignancy; cancer; ovarian cancer; colorectal cancer; sarcoma;
KW leukemia; lymphoma; inflammatory disease; necrosis; atherosclerosis;
KW infertility; premature aging; psoriasis; inflammatory disease;
KW renal disease; arthritis; immune-mediated alopecia; stroke; encephalitis;
KW hepatitis; multiple sclerosis; gene therapy.
OS Homo sapiens.
XX

PN US2003004102-A1.
XX
PD 02-JAN-2003.
XX
PF 15-OCT-2001; 2001US-00978189.
XX
PR 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
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PR 30-MAR-1998; 98US-0079923P.
PR 26-JUN-1998; 98US-00105413.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98WO-US024855.
PR 07-DEC-1998; 98US-00202054.
PR 22-DEC-1998; 98US-00218517.
PR 05-JAN-1999; 98WO-US000106.
PR 05-JAN-1999; 99US-00254465.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99US-00265686.
PR 12-MAR-1999; 99WO-US005190.
PR 12-APR-1999; 99US-00267213.
PR 14-MAY-1999; 99US-00284291.
PR 14-MAY-1999; 99WO-US011832.
PR 02-JUN-1999; 99WO-US010733.
PR 25-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380142.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.

PR	24-AUG-2000	2001MS-US023328
PR	06-NOV-2000	2001MS-US009828
PR	15-NOV-2000	2001MS-US030873
PR	27-NOV-2000	2001MS-US072374
PR	01-DEC-2000	2001MS-US033678
PR	20-DEC-2000	2001MS-US074259
PR	20-DEC-2000	2001MS-US034956
PR	20-DEC-2000	2001MS-US006620
PR	28-FEB-2001	2001MS-US081574
PR	22-MAR-2001	2001MS-US095952
PR	22-MAR-2001	2001MS-US081620
PR	16-MAY-2001	2001MS-US085208
PR	10-MAY-2001	2001MS-US084280
PR	25-MAY-2001	2001MS-US051092
PR	01-JUN-2001	2001MS-US087035
PR	01-JUN-2001	2001MS-US017800
PR	04-JUN-2001	2001MS-US087450
PR	15-JUN-2001	2001MS-US086336
PR	19-JUN-2001	2001MS-US086342
PR	20-JUN-2001	2001MS-US019692
PR	29-JUN-2001	2001MS-US021066
PR	03-JUL-2001	2001MS-US021735
PR	30-JUL-2001	2001MS-US015855

(GETH) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Boetsch D, Desnyers L, Eaton DL,
 PI Ferrara NJ, Filarzoff E, Fong S, Garber H, Gerritsen ME,
 PI Goodard A, Gowdaski PJ, Girmaldi JC, Gurney AL, Hillan KJ,
 PI Kilaaviv JU, Kuo SS, Nabler MA, Pan J, Peoni NF, Roy MA,
 PI Stewart TA, Tumas D, Williams PM, Wood WJ,
 XX
 WPJ: 2003-341189/732.
 DR P-PSDB; ABU80364.
 DR

PT New genes and secreted and transmembrane polypeptides (e.g. PRO337 or PRO1559), useful for treating or diagnosing e.g. cancers, PT atherosclerosis, infertility, stroke, encephalitis, hepatitis or multiple sclerosis in mammals.

Claim 2; Fig 60; 460pp; English.

The invention relates to a new isolated nucleic acid molecule comprising a sequence with at least 80% identity to: (a) a nucleotide encoding any of 94 PRO polypeptides whose sequences are fully defined in the specification; or (b) any of 94 nucleotide sequences fully defined in the specification; or the full length coding sequence of any these 94 nucleotide sequences. Also included are an isolated PRO polypeptide scoring at least 80% positives when compared to any of the PRO polypeptide sequences cited above (or an isolated PRO polypeptide having at least 80% amino acid sequence identity to: (a) an amino acid sequence encoded by the nucleotide deposited with ATCC numbers listed in the specification; (b) the PRO polypeptide, lacking its associated signal peptide; or (c) an extracellular domain of the PRO polypeptide, with or lacking its associated signal peptide), a vector comprising the nucleic acid molecule, a host cell comprising the vector (and producing a PRO polypeptide), a chimeric molecule comprising the PRO polypeptide fused to a heterologous amino acid sequence and an anti-PRO antibody. The PRO polypeptides or polynucleotides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These are particularly useful for detecting or treating e.g. melanomas or cancers (e.g. ovarian cancer, colorectal cancer, sarcoma, leukemia or lymphoma), inflammatory disease, neurosis, atherosclerosis, infertility, premature aging, psoriasis, inflammatory disease, renal disease, arthritis, immune-mediated alopecia, stroke, encephalitis, hepatitis, or multiple sclerosis in mammals. The PRO polypeptides are useful in drug screening, particularly as targets for therapeutic intervention in these diseases, and in the diagnostic determination of the presence of these diseases. The PRO polypeptides are also useful as molecular weight markers, or for chromosome identification. The PRO genes are useful as hybridization probes, or for screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. The present sequence encodes a PRO polypeptide

```
Db      961  TTTAGTAGTGTGTTTCTGCTTTATGACCTCAGCCCGGCTGAGTGCTAGAG 1020
Qy      1021  CCAGAGGTGCCCAATGCTACTGACAAAGTGCCTCAGTTCCCGCCCGGCTCAGGC 1080
Db      1021  CCAGAGGTGCCCAATGCTACTGACAAAGTGCCTCAGTTCCCGCCCGGCTCAGGC 1080
Qy      1081  CGTGGAGCCCGTATATCTGCTCTGTCGCAAGATCTGAGGAGGATCAGACCTGC 1140
Db      1081  CGTGGAGCCCGTATATCTGCTCTGTCGCAAGATCTGAGGAGGATCAGACCTGC 1140
Qy      1141  CCTGTGAGCGGAGCGGAGCCAGGCTCTTGTGTCTCTACTCAGGTTGCTTCCCTGTC 1200
Db      1141  CCTGTGAGCGGAGCGGAGCCAGGCTCTTGTGTCTCTACTCAGGTTGCTTCCCTGTC 1200
Qy      1201  CCAGCTGTATGATCTGAGGAGGACACACCTGTGCGGCTGAGGCTGAGCTCCG 1260
Db      1201  CCAGCTGTATGATCTGAGGAGGACACACCTGTGCGGCTGAGGCTGAGCTCCG 1260
Qy      1261  TGGTGTGAGGCGGAGGCTGTGCTGATGCACTTCTCTGCTCCACCCCTGAGCA 1320
Db      1261  TGGTGTGAGGCGGAGGCTGTGCTGATGCACTTCTCTGCTCCACCCCTGAGCA 1320
Qy      1321  GGGAGGAGCTTGGCTGACACACCCAGCTTATGTAATATGTCGAGTTGACTTAG 1380
Db      1321  GGGAGGAGCTTGGCTGACACACCCAGCTTATGTAATATGTCGAGTTGACTTAG 1380
Qy      1381  GAAGCTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAT 1440
Db      1381  GAAGCTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAT 1440
Qy      1441  TATTAATCTGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAT 1500
Db      1441  TATTAATCTGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAT 1500
Qy      1501  TCTCATTCGAAG 1512
Db      1501  TCTCATTCGAAG 1512

RESULT 9
ADA24700
ID      ADA24700 standard; cDNA; 1512 BP.
XX      AC      ADA24700;
XX      DT      20-NOV-2003 (first entry)
XX      DE      Novel human secreted and transmembrane protein PRO615 cDNA.
XX      KW      Human; secreted and transmembrane protein; PRO; gene; ss; tissue typing;
XX      KW      chromosome identification; vaccine; cancer; retinal disorder;
XX      KW      sports-related joint disorder; osteoarthritis; rheumatoid arthritis;
XX      KW      wound healing; obesity; diabetes; hearing loss;
XX      KW      cardiac insufficiency disorder; kidney disorder; nervous system disorder;
XX      KW      haemoglobin associated disorder.
XX      OS      Homo sapiens.
XX      PN      US2003050241-A1.
XX      PD      13-MAR-2003.
XX      PF      16-OCT-2001; 2001US-00978564.
XX      PR      17-OCT-1997; 97US-0062250P.
XX      PR      13-NOV-1997; 97US-0064248P.
XX      PR      21-NOV-1997; 97US-0065311P.
XX      PR      10-MAR-1998; 98US-0068364P.
XX      PR      11-MAR-1998; 98US-0077450P.
XX      PR      11-MAR-1998; 98US-0077632P.
XX      PR      11-MAR-1998; 98US-0077641P.
XX      PR      12-MAR-1998; 98US-0077649P.
XX      PR      12-MAR-1998; 98US-0077791P.

PR      13-MAR-1998; 98US-0078004P.
PR      20-MAR-1998; 98US-0078865P.
PR      20-MAR-1998; 98US-0078810P.
PR      20-MAR-1998; 98US-0078936P.
PR      25-MAR-1998; 98US-0079294P.
PR      26-MAR-1998; 98US-0079294P.
PR      27-MAR-1998; 98US-0079663P.
PR      27-MAR-1998; 98US-0079664P.
PR      27-MAR-1998; 98US-0079689P.
PR      27-MAR-1998; 98US-0079786P.
PR      30-MAR-1998; 98US-0079920P.
PR      30-MAR-1998; 98US-0079923P.
PR      31-MAR-1998; 98US-0080105P.
PR      31-MAR-1998; 98US-0080107P.
PR      31-MAR-1998; 98US-0080165P.
PR      31-MAR-1998; 98US-0080194P.
PR      01-APR-1998; 98US-0080327P.
PR      01-APR-1998; 98US-0080328P.
PR      01-APR-1998; 98US-0080333P.
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PR      08-APR-1998; 98US-0081049P.
PR      08-APR-1998; 98US-0081070P.
PR      08-APR-1998; 98US-0081071P.
PR      09-APR-1998; 98US-0081195P.
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PR      09-APR-1998; 98US-0081229P.
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PR      15-APR-1998; 98US-0081819P.
PR      15-APR-1998; 98US-0081836P.
PR      15-APR-1998; 98US-0081952P.
PR      15-APR-1998; 98US-0081955P.
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PR      22-APR-1998; 98US-0082797P.
PR      22-APR-1998; 98US-0082804P.
PR      23-APR-1998; 98US-0082796P.
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PR      28-APR-1998; 98US-0083332P.
PR      29-APR-1998; 98US-0083392P.
PR      29-APR-1998; 98US-0083495P.
PR      29-APR-1998; 98US-0083496P.
PR      29-APR-1998; 98US-0083499P.
PR      29-APR-1998; 98US-0083500P.
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PR      29-APR-1998; 98US-0083558P.
PR      29-APR-1998; 98US-0083559P.
PR      30-APR-1998; 98US-0083742P.
PR      05-MAY-1998; 98US-0084366P.
PR      06-MAY-1998; 98US-0084414P.
PR      06-MAY-1998; 98US-0084441P.
PR      07-MAY-1998; 98US-0084598P.
PR      07-MAY-1998; 98US-0084600P.
PR      07-MAY-1998; 98US-0084627P.
PR      07-MAY-1998; 98US-0084637P.
PR      07-MAY-1998; 98US-0084639P.
PR      07-MAY-1998; 98US-0084640P.
PR      07-MAY-1998; 98US-0084643P.
PR      13-MAY-1998; 98US-0085323P.
PR      13-MAY-1998; 98US-0085338P.
PR      13-MAY-1998; 98US-0085339P.
PR      15-MAY-1998; 98US-0085573P.
PR      15-MAY-1998; 98US-0085579P.
PR      15-MAY-1998; 98US-0085580P.
PR      15-MAY-1998; 98US-0085582P.
PR      15-MAY-1998; 98US-0085689P.
PR      15-MAY-1998; 98US-0085697P.
PR      15-MAY-1998; 98US-0085700P.
PR      15-MAY-1998; 98US-0085704P.
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Db      661 AACAGCCACCTTACCCAGAACCGGAGACCAACGAGGCTACACGCCGCCCTCTGT 720
Oy      721 ACTGATGTCGGCTTACGCTGGGAAAGGGGACAGAGAGGCCCTCTCCCTTGGCCCTGACT 780
Db      721 ACTGATGTCGGCTTACGCTGGGAAAGGGGACAGAGAGGCCCTCTCCCTTGGCCCTGACT 780
Oy      781 TTCCCATCAGGCTCCTGGAACTGACAGCCCTCTCTTTCACCTGTTCATCTCTGTGAGC 840
Db      781 TTCCCATCAGGCTCCTGGAACTGACAGCCCTCTCTTTCACCTGTTCATCTCTGTGAGC 840
Oy      841 TGACACACAGCTTAAGAGCCTCATAGCCTGGCGGGGCTGGCAAGCACAACCCCAAGTG 900
Db      841 TGACACACAGCTTAAGAGCCTCATAGCCTGGCGGGGCTGGCAAGCACAACCCCAAGTG 900
Oy      901 CCGTGCCAGAGGGCTCAGTCAAGCGGCTCACTCTCCAGGGGACCTTTAGGAAAGGT 960
Db      901 CCGTGCCAGAGGGCTCAGTCAAGCGGCTCACTCTCCAGGGGACCTTTAGGAAAGGT 960
Oy      961 TTTTACCTAGTCTTTTCTGCTTTTATGACCTGACCCCGGCTGCAAGTGGCTAGAG 1020
Db      961 TTTTACCTAGTCTTTTCTGCTTTTATGACCTGACCCCGGCTGCAAGTGGCTAGAG 1020
Oy      1021 CCAGAGGTCGCCATGTCCTCTGACAGTCTCACTTCCCGCGGCTGAGGCTCAGGC 1080
Db      1021 CCAGAGGTCGCCATGTCCTCTGACAGTCTCACTTCCCGCGGCTGAGGCTCAGGC 1080
Oy      1081 CGTGGAGCCCGCTATTTATCTGCTTCTGCTGCAAGAGCTGCGGGGCTCATACACCTGC 1140
Db      1081 CGTGGAGCCCGCTATTTATCTGCTTCTGCTGCAAGAGCTGCGGGGCTCATACACCTGC 1140
Oy      1141 CCTGTGACGCGGAGCCGACCAAGGCTCTTGTCTCTCACTCAGTTCCTTCCCTGTGC 1200
Db      1141 CCTGTGACGCGGAGCCGACCAAGGCTCTTGTCTCTCACTCAGTTCCTTCCCTGTGC 1200
Oy      1201 CCACGCTGATGATCTCTGCGGGGACCAACCTGTGCGGCTGAGGCTGAGGCTGAGG 1260
Db      1201 CCACGCTGATGATCTCTGCGGGGACCAACCTGTGCGGCTGAGGCTGAGGCTGAGG 1260
Oy      1261 TGGTGTGAGGCGGGGCTGTGTCTGATGAGCACTTCTCTTGTGCTCCACCCCTGGAGCA 1320
Db      1261 TGGTGTGAGGCGGGGCTGTGTCTGATGAGCACTTCTCTTGTGCTCCACCCCTGGAGCA 1320
Oy      1321 GGGAGGCGCTTGTGCTGACACACCCAGCTTATGTAATATCTGAGTGTGTTACTTAG 1380
Db      1321 GGGAGGCGCTTGTGCTGACACACCCAGCTTATGTAATATCTGAGTGTGTTACTTAG 1380
Oy      1381 GAAAGCTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAT 1440
Db      1381 GAAAGCTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAT 1440
Oy      1441 TATATAATCGTGGGAGGAGTCCCGGCTGGGAGTGTGTTGGAGAGGAGTAATATGTTT 1500
Db      1441 TATATAATCGTGGGAGGAGTCCCGGCTGGGAGTGTGTTGGAGAGGAGTAATATGTTT 1500
Oy      1501 TCTCATTCGAAG 1512
Db      1501 TCTCATTCGAAG 1512

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KW      Krabbe's disease; Metachromatic leukodystrophy; Fabry's disease;
KW      Dejerine-Sottas syndrome; Chromosome mapping; gene mapping; gene therapy;
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( GETH ) GENENTECH INC.
PA Ashkenazi AJ, Baker KP, Botstein D, Desnyere L, Eaton DL,
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME,
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30	1512	100.0	1512	10	US-09-978-802A-161	Sequence 161, App
31	1512	100.0	1512	12	US-10-164-749A-161	Sequence 161, App
32	1512	100.0	1512	12	US-09-999-831A-161	Sequence 161, App
33	1512	100.0	1512	12	US-10-013-917A-161	Sequence 161, App
34	1512	100.0	1512	14	US-10-017-081A-161	Sequence 161, App
35	1512	100.0	1512	14	US-10-167-749-161	Sequence 161, App
36	1512	100.0	1512	14	US-10-013-921A-161	Sequence 161, App
37	1512	100.0	1512	14	US-10-013-929A-161	Sequence 161, App
38	1512	100.0	1512	14	US-10-016-177A-161	Sequence 161, App
39	1512	100.0	1512	14	US-10-166-709A-161	Sequence 161, App
40	1512	100.0	1512	14	US-10-143-031A-161	Sequence 161, App
41	1512	100.0	1512	14	US-10-143-030A-161	Sequence 161, App
42	1512	100.0	1512	14	US-10-002-967A-161	Sequence 161, App
43	1512	100.0	1512	14	US-10-017-083A-161	Sequence 161, App
44	1512	100.0	1512	14	US-10-145-128A-161	Sequence 161, App
45	1512	100.0	1512	14	US-10-017-191A-161	Sequence 161, App

ALIGNMENTS

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RESULT 1
US-09-978-295A-161
; Sequence 161, Application US/09978295A
; Patent No. US2002015606A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerilsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guirney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Iyav J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumes, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC11
; CURRENT APPLICATION NUMBER: US/09/978, 295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
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1	PRIOR FILING DATE: 2001-07-30	PRIOR APPLICATION NUMBER: 60/0662250
2	PRIOR FILING DATE: 1997-10-17	PRIOR APPLICATION NUMBER: 60/0642439
3	PRIOR FILING DATE: 1997-11-03	PRIOR APPLICATION NUMBER: 60/0653111
4	PRIOR FILING DATE: 1997-11-13	PRIOR APPLICATION NUMBER: 60/0653646
5	PRIOR FILING DATE: 1997-11-21	PRIOR APPLICATION NUMBER: 60/0677450
6	PRIOR FILING DATE: 1998-03-10	PRIOR APPLICATION NUMBER: 60/0776322
7	PRIOR FILING DATE: 1998-03-11	PRIOR APPLICATION NUMBER: 60/0776411
8	PRIOR FILING DATE: 1998-03-11	PRIOR APPLICATION NUMBER: 60/0776459
9	PRIOR FILING DATE: 1998-03-20	PRIOR APPLICATION NUMBER: 60/0789366
10	PRIOR FILING DATE: 1998-03-20	PRIOR APPLICATION NUMBER: 60/0789101
11	PRIOR FILING DATE: 1998-03-20	PRIOR APPLICATION NUMBER: 60/0789339
12	PRIOR FILING DATE: 1998-03-20	PRIOR APPLICATION NUMBER: 60/0792344
13	PRIOR FILING DATE: 1998-03-25	PRIOR APPLICATION NUMBER: 60/0793656
14	PRIOR FILING DATE: 1998-03-26	PRIOR APPLICATION NUMBER: 60/0796644
15	PRIOR FILING DATE: 1998-03-27	PRIOR APPLICATION NUMBER: 60/0796689
16	PRIOR FILING DATE: 1998-03-27	PRIOR APPLICATION NUMBER: 60/0796633
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18	PRIOR FILING DATE: 1998-03-27	PRIOR APPLICATION NUMBER: 60/0797866
19	PRIOR FILING DATE: 1998-03-27	PRIOR APPLICATION NUMBER: 60/0799220
20	PRIOR FILING DATE: 1998-03-30	PRIOR APPLICATION NUMBER: 60/0799232
21	PRIOR FILING DATE: 1998-03-30	PRIOR APPLICATION NUMBER: 60/0801052
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23	PRIOR FILING DATE: 1998-03-31	PRIOR APPLICATION NUMBER: 60/0801555
24	PRIOR FILING DATE: 1998-03-31	PRIOR APPLICATION NUMBER: 60/0801944
25	PRIOR FILING DATE: 1998-03-31	PRIOR APPLICATION NUMBER: 60/0803373
26	PRIOR FILING DATE: 1998-04-01	PRIOR APPLICATION NUMBER: 60/0803488
27	PRIOR FILING DATE: 1998-04-01	PRIOR APPLICATION NUMBER: 60/0803333
28	PRIOR FILING DATE: 1998-04-01	PRIOR APPLICATION NUMBER: 60/0803344
29	PRIOR FILING DATE: 1998-04-08	PRIOR APPLICATION NUMBER: 60/0810499
30	PRIOR FILING DATE: 1998-04-08	PRIOR APPLICATION NUMBER: 60/0810711
31	PRIOR FILING DATE: 1998-04-08	PRIOR APPLICATION NUMBER: 60/0811355
32	PRIOR FILING DATE: 1998-04-08	PRIOR APPLICATION NUMBER: 60/0812030
33	PRIOR FILING DATE: 1998-04-09	PRIOR APPLICATION NUMBER: 60/0812030

[illegible]

1	PRIOR FILING DATE: 1998-05-13
2	PRIOR APPLICATION NUMBER: 60/085353.3
3	PRIOR FILING DATE: 1998-05-13
4	PRIOR APPLICATION NUMBER: 60/085582.2
5	PRIOR FILING DATE: 1998-05-15
6	PRIOR APPLICATION NUMBER: 60/085570.0
7	PRIOR FILING DATE: 1998-05-15
8	PRIOR APPLICATION NUMBER: 60/085669.9
9	PRIOR FILING DATE: 1998-05-15
10	PRIOR APPLICATION NUMBER: 60/085579.7
11	PRIOR FILING DATE: 1998-05-15
12	PRIOR APPLICATION NUMBER: 60/085580.8
13	PRIOR FILING DATE: 1998-05-15
14	PRIOR APPLICATION NUMBER: 60/085573.7
15	PRIOR FILING DATE: 1998-05-15
16	PRIOR APPLICATION NUMBER: 60/085704.0
17	PRIOR FILING DATE: 1998-05-15
18	PRIOR APPLICATION NUMBER: 60/085697.2
19	PRIOR APPLICATION NUMBER: 60/085697.2

Query Match	100.0%;	Score 1512;	DB 9;	Length 1512;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1512;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

[illegible]

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Qy	841	TGACAACAAGCTTAAGAGAGCTCATAGCTGCGGGGGCTGGCAGAGCCACCCCAAGTG	900
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Qy	901	CCTGTGCGCAGAGGGAGCTTCAGTCAAGCGGCTCACTCCCTCCAGGGGACCTTTTGGAAAAGGT	960
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; Sequence 161, Application US/09978697			
; Patent No. US20020169284A1			
; GENERAL INFORMATION:			
; APPLICANT: Ashkenazi, Avi			
; APPLICANT: Baker Kevin P.			
; APPLICANT: Boststein, David			
; APPLICANT: Desnoyers, Luc			
; APPLICANT: Eaton, Dan			
; APPLICANT: Ferrara, Napoleon			
; APPLICANT: Filvaroff, Ellen			
; APPLICANT: Fong, Sherman			
; APPLICANT: Gao, Wei-Qiang			
; APPLICANT: Gerber, Hanspeter			
; APPLICANT: Gerlicsen, Mary E.			
; APPLICANT: Goddard, Audrey			
; APPLICANT: Godowski, Paul J.			

APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austen L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napiet, Mary A.
APPLICANT: Pan, Jamesi
APPLICANT: Paori, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumae, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: F2630P1C27
CURRENT APPLICATION NUMBER: US/09/978,697
PRIOR FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-04-09
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414

RESULT 3
US-09-978-192A-161
Sequence 161, Application US/09978192A
Patent No. US2002017753A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC9
CURRENT APPLICATION NUMBER: US/09/978,192A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR APPLICATION NUMBER: 60/066364
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PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
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PRIOR APPLICATION NUMBER: 60/080327
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PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
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PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495

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DB 1441 TATAAATCGTGGGAGATGCCGCTGGAGTCTGTTGAGAGCGAATAATGTTT 1500
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DB 1501 TCTCATTCGAAG 1512

RESULT 4

US-09-999-832A-161

Sequence 161, Application US/09999832A

Publication No. US20020192706A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerlisen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J

APPLICANT: Kljavin, Ivar J.

APPLICANT: Kuo, Sophia S.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Pao, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Shelton, David L.

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P2630P1C63

CURRENT APPLICATION NUMBER: US/09/999,832A

PRIOR FILING DATE: 2001-10-24

PRIOR APPLICATION NUMBER: 09/918585

PRIOR FILING DATE: 2001-07-30

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/064249

PRIOR FILING DATE: 1997-11-03

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066364

PRIOR FILING DATE: 1997-11-21

PRIOR APPLICATION NUMBER: 60/077450

PRIOR FILING DATE: 1998-03-10

PRIOR APPLICATION NUMBER: 60/07632

PRIOR FILING DATE: 1998-03-11

1 PRIOR APPLICATION NUMBER: 60/077641
2 PRIOR FILING DATE: 1998-03-11
3 PRIOR APPLICATION NUMBER: 60/077649
4 PRIOR FILING DATE: 1998-03-11
5 PRIOR APPLICATION NUMBER: 60/077791
6 PRIOR FILING DATE: 1998-03-12
7 PRIOR APPLICATION NUMBER: 60/078004
8 PRIOR FILING DATE: 1998-03-13
9 PRIOR APPLICATION NUMBER: 60/078886
10 PRIOR FILING DATE: 1998-03-20
11 PRIOR APPLICATION NUMBER: 60/078936
12 PRIOR FILING DATE: 1998-03-20
13 PRIOR APPLICATION NUMBER: 60/078910
14 PRIOR FILING DATE: 1998-03-20
15 PRIOR APPLICATION NUMBER: 60/078939
16 PRIOR FILING DATE: 1998-03-20
17 PRIOR APPLICATION NUMBER: 60/079294
18 PRIOR FILING DATE: 1998-03-25
19 PRIOR APPLICATION NUMBER: 60/079656
20 PRIOR FILING DATE: 1998-03-26
21 PRIOR APPLICATION NUMBER: 60/079664
22 PRIOR FILING DATE: 1998-03-27
23 PRIOR APPLICATION NUMBER: 60/079689
24 PRIOR FILING DATE: 1998-03-27
25 PRIOR APPLICATION NUMBER: 60/079663
26 PRIOR FILING DATE: 1998-03-27
27 PRIOR APPLICATION NUMBER: 60/079728
28 PRIOR FILING DATE: 1998-03-27
29 PRIOR APPLICATION NUMBER: 60/079786
30 PRIOR FILING DATE: 1998-03-27
31 PRIOR APPLICATION NUMBER: 60/079920
32 PRIOR FILING DATE: 1998-03-30
33 PRIOR APPLICATION NUMBER: 60/079923
34 PRIOR FILING DATE: 1998-03-30
35 PRIOR APPLICATION NUMBER: 60/080105
36 PRIOR FILING DATE: 1998-03-31
37 PRIOR APPLICATION NUMBER: 60/080107
38 PRIOR FILING DATE: 1998-03-31
39 PRIOR APPLICATION NUMBER: 60/080165
40 PRIOR FILING DATE: 1998-03-31
41 PRIOR APPLICATION NUMBER: 60/080194
42 PRIOR FILING DATE: 1998-03-31
43 PRIOR APPLICATION NUMBER: 60/080327
44 PRIOR FILING DATE: 1998-04-01
45 PRIOR APPLICATION NUMBER: 60/080328
46 PRIOR FILING DATE: 1998-04-01
47 PRIOR APPLICATION NUMBER: 60/080333
48 PRIOR FILING DATE: 1998-04-01
49 PRIOR APPLICATION NUMBER: 60/080334
50 PRIOR FILING DATE: 1998-04-01
51 PRIOR APPLICATION NUMBER: 60/081070
52 PRIOR FILING DATE: 1998-04-08
53 PRIOR APPLICATION NUMBER: 60/081049
54 PRIOR FILING DATE: 1998-04-08
55 PRIOR APPLICATION NUMBER: 60/081071
56 PRIOR FILING DATE: 1998-04-08
57 PRIOR APPLICATION NUMBER: 60/081195
58 PRIOR FILING DATE: 1998-04-08
59 PRIOR APPLICATION NUMBER: 60/081203
60 PRIOR FILING DATE: 1998-04-09
61 PRIOR APPLICATION NUMBER: 60/081229
62 PRIOR FILING DATE: 1998-04-09
63 PRIOR APPLICATION NUMBER: 60/081955
64 PRIOR FILING DATE: 1998-04-15
65 PRIOR APPLICATION NUMBER: 60/081817
66 PRIOR FILING DATE: 1998-04-15
67 PRIOR APPLICATION NUMBER: 60/081819
68 PRIOR FILING DATE: 1998-04-15
69 PRIOR APPLICATION NUMBER: 60/081952
70 PRIOR FILING DATE: 1998-04-15
71 PRIOR APPLICATION NUMBER: 60/081838
72 PRIOR FILING DATE: 1998-04-15
73 PRIOR APPLICATION NUMBER: 60/082568

QY	961	TTTATGCTAGAGTGTCTTCTCGCTTTTATATGACACCCAGCCCGCTGCAGTGGCTAAGAG	102
Db	961	TTTATGCTAGAGTGTCTTCTCGCTTTTATATGACACCCAGCCCGCTGCAGTGGCTAAGAG	102
QY	1021	CCAGCAGGTGCCCATGTGCTACTGACAAAGTGTCTAGCTCCCGCCGGCCGGGTACAGGC	108
Db	1021	CCAGCAGGTGCCCATGTGCTACTGACAAAGTGTCTAGCTCCCGCCGGCCGGGTACAGGC	108
QY	1081	CGTGGAGACCCGCTATTTATCTGCGTCTCTGCCCCAAGAATCGTGGGGGGCCATACACCTGC	114
Db	1081	CGTGGAGACCCGCTATTTATCTGCGTCTCTGCCCCAAGAATCTGTGGGGGGCCATACACCTGC	114
QY	1141	CCTGTGCACGGGAGCCGGAACCAAGGCTCTTGTGTCTCACTCAAGTTTGCTTCCCTGTGTC	120
Db	1141	CCTGTGCACGGGAGCCGGAACCAAGGCTCTTGTGTCTCACTCAAGTTTGCTTCCCTGTGTC	120
QY	1201	CCACTGCTGTATGATCTGAGGGGCCAACCAACCCTGTGCCCCGGTGGACCTCTGGGCTGCCG	126
Db	1201	CCACTGCTGTATGATCTGAGGGGCCAACCAACCCTGTGCCCCGGTGGACCTCTGGGCTGCCG	126
QY	1261	TGCTGTGAGGGGGGGGGCTGTGTACTATGCACTTCTCTTGTGCTCCACCCCTGCAGCA	132
Db	1261	TGCTGTGAGGGGGGGGGCTGTGTACTATGCACTTCTCTTGTGCTCCACCCCTGCAGCA	132
QY	1321	GGGAAAGGGCTTGTGCTGCACAACCCAGCCTTTATGTAAATATTCTGCAAGTTGTACTAG	138
Db	1321	GGGAAAGGGCTTGTGCTGCACAACCCAGCCTTTATGTAAATATTCTGCAAGTTGTACTAG	138
QY	1381	GAAGCTGTGGAGAGGGCAGGGGTGCCCATGCTCCCAAGCTGTGTCTGTGCCGAGTGTAT	144
Db	1381	GAAGCTGTGGAGAGGGCAGGGGTGCCCATGCTCCCAAGCTGTGTCTGTGCCGAGTGTAT	144
QY	1441	TATAAATATCTGTGGGAGATGCCCCGGCTGGAGTCTGTTTGGAGACGGAATAAATGTTT	150
Db	1441	TATAAATATCTGTGGGAGATGCCCCGGCTGGAGTCTGTTTGGAGACGGAATAAATGTTT	150
QY	1501	TCTCATTTCAAAG 1512	
Db	1501	TCTCATTTCAAAG 1512	

RESULT 5
US-09-978-189-161
; Sequence 161, Application US/09978189
; Publication No. US20030004102A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Bostein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrar, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Geber, Hanseter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul U.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Williams, P. Mickey

1 APPLICANT: Wood, William I.
 2 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 3 ACIDS OF INVENTION: Acids Encoding the Same
 4 FILE REFERENCE: P2630P1C7
 5 CURRENT APPLICATION NUMBER: US/09/976,189
 6 CURRENT FILING DATE: 2001-10-15
 7 PRIOR APPLICATION NUMBER: 09/918565
 8 PRIOR FILING DATE: 2001-07-30
 9 PRIOR APPLICATION NUMBER: 60/062250
 10 PRIOR FILING DATE: 1997-10-17
 11 PRIOR APPLICATION NUMBER: 60/064249
 12 PRIOR FILING DATE: 1997-11-03
 13 PRIOR APPLICATION NUMBER: 60/065311
 14 PRIOR FILING DATE: 1997-11-13
 15 PRIOR APPLICATION NUMBER: 60/066364
 16 PRIOR FILING DATE: 1997-11-21
 17 PRIOR APPLICATION NUMBER: 60/077450
 18 PRIOR FILING DATE: 1998-03-10
 19 PRIOR APPLICATION NUMBER: 60/077652
 20 PRIOR FILING DATE: 1998-03-11
 21 PRIOR APPLICATION NUMBER: 60/077641
 22 PRIOR FILING DATE: 1998-03-11
 23 PRIOR APPLICATION NUMBER: 60/077649
 24 PRIOR FILING DATE: 1998-03-11
 25 PRIOR APPLICATION NUMBER: 60/077791
 26 PRIOR FILING DATE: 1998-03-12
 27 PRIOR APPLICATION NUMBER: 60/078004
 28 PRIOR FILING DATE: 1998-03-13
 29 PRIOR APPLICATION NUMBER: 60/078866
 30 PRIOR FILING DATE: 1998-03-20
 31 PRIOR APPLICATION NUMBER: 60/078936
 32 PRIOR FILING DATE: 1998-03-20
 33 PRIOR APPLICATION NUMBER: 60/078910
 34 PRIOR FILING DATE: 1998-03-20
 35 PRIOR APPLICATION NUMBER: 60/078939
 36 PRIOR FILING DATE: 1998-03-20
 37 PRIOR APPLICATION NUMBER: 60/079294
 38 PRIOR FILING DATE: 1998-03-25
 39 PRIOR APPLICATION NUMBER: 60/079656
 40 PRIOR FILING DATE: 1998-03-26
 41 PRIOR APPLICATION NUMBER: 60/079664
 42 PRIOR FILING DATE: 1998-03-27
 43 PRIOR APPLICATION NUMBER: 60/079669
 44 PRIOR FILING DATE: 1998-03-27
 45 PRIOR APPLICATION NUMBER: 60/079663
 46 PRIOR FILING DATE: 1998-03-27
 47 PRIOR APPLICATION NUMBER: 60/079728
 48 PRIOR FILING DATE: 1998-03-27
 49 PRIOR APPLICATION NUMBER: 60/079786
 50 PRIOR FILING DATE: 1998-03-27
 51 PRIOR APPLICATION NUMBER: 60/079920
 52 PRIOR FILING DATE: 1998-03-30
 53 PRIOR APPLICATION NUMBER: 60/079923
 54 PRIOR FILING DATE: 1998-03-30
 55 PRIOR APPLICATION NUMBER: 60/080105
 56 PRIOR FILING DATE: 1998-03-31
 57 PRIOR APPLICATION NUMBER: 60/080107
 58 PRIOR FILING DATE: 1998-03-31
 59 PRIOR APPLICATION NUMBER: 60/080165
 60 PRIOR FILING DATE: 1998-03-31
 61 PRIOR APPLICATION NUMBER: 60/080194
 62 PRIOR FILING DATE: 1998-03-31
 63 PRIOR APPLICATION NUMBER: 60/080327
 64 PRIOR FILING DATE: 1998-04-01
 65 PRIOR APPLICATION NUMBER: 60/080328
 66 PRIOR FILING DATE: 1998-04-01
 67 PRIOR APPLICATION NUMBER: 60/080333
 68 PRIOR FILING DATE: 1998-04-01
 69 PRIOR APPLICATION NUMBER: 60/080334
 70 PRIOR FILING DATE: 1998-04-01
 71 PRIOR APPLICATION NUMBER: 60/081070
 72 PRIOR FILING DATE: 1998-04-08
 73 PRIOR APPLICATION NUMBER: 60/081049

QY 661 AACAGCCACCTTTACCCAGAAACGGGAGACCAACGAGGCTACCAAGCCGCCCCCTGTGT 720
 Db 661 AACAGCCACCTTTACCCAGAAACGGGAGACCAACGAGGCTACCAAGCCGCCCCCTGTGT 720
 QY 721 ACTGATGCGGCTGAGCGTGGAGAGGGGAGACAGAGAGGAGGCTCCCTCTGCTGAGT 780
 Db 721 ACTGATGCGGCTGAGCGTGGAGAGGGGAGACAGAGAGGAGGCTCCCTCTGCTGAGT 780
 QY 781 TTCCCATGAGCTCCTGGAACCTGCAAGCCCTCTCTTCACTGTTTCACTCTGTGAGC 840
 Db 781 TTCCCATGAGCTCCTGGAACCTGCAAGCCCTCTCTTCACTGTTTCACTCTGTGAGC 840
 QY 841 TCACACAGAGCTAAGAGGCTCATAGCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 900
 Db 841 TCACACAGAGCTAAGAGGCTCATAGCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 900
 QY 901 CCTGTGCCAGAGGCTTCACTGAGCAGCCGCTCACTCTTCAAGGAGCATTTTAGAAAGGT 960
 Db 901 CCTGTGCCAGAGGCTTCACTGAGCAGCCGCTCACTCTTCAAGGAGCATTTTAGAAAGGT 960
 QY 961 TTTTACCTAGTCTTTTCTGCTTTTATATACCTGAGCCGCTGAGAGGCTAGAG 1020
 Db 961 TTTTACCTAGTCTTTTCTGCTTTTATATACCTGAGCCGCTGAGAGGCTAGAG 1020
 QY 1021 CCAGAGAGTGCCTATGCTGCTAGTGAACAAGTGCCTGAGCTCCCGGAGGCTAGAG 1080
 Db 1021 CCAGAGAGTGCCTATGCTGCTAGTGAACAAGTGCCTGAGCTCCCGGAGGCTAGAG 1080
 QY 1081 CGTGGAGAGCGCTATATATGCTGCTTCTGCGCAAGATCTGAGGAGGCTAGAG 1140
 Db 1081 CGTGGAGAGCGCTATATATGCTGCTTCTGCGCAAGATCTGAGGAGGCTAGAG 1140
 QY 1141 CCTGTGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1200
 Db 1141 CCTGTGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1200
 QY 1201 CCAGCTGCTATATGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1260
 Db 1201 CCAGCTGCTATATGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1260
 QY 1261 TGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1320
 Db 1261 TGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1320
 QY 1321 GGGAGAGGCTTTCCTGACACACACAGGCTTATATATATATATATATATATATATAT 1380
 Db 1321 GGGAGAGGCTTTCCTGACACACACAGGCTTATATATATATATATATATATATATAT 1380
 QY 1381 GAAAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1440
 Db 1381 GAAAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1440
 QY 1441 TATAAATGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1500
 Db 1441 TATAAATGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1500
 QY 1501 TCTCATTTCAAG 1512
 Db 1501 TCTCATTTCAAG 1512

RESULT 6
 US-09-978-608A-161
 ; Sequence 161, Application US/09978608A
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon

APPLICANT: Elvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Geriltsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Guiney, Austin L.
 APPLICANT: Hillan, Kenneth J.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Proul, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Snelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: F2630P1C22
 CURRENT APPLICATION NUMBER: US/09/978, 608A
 NUMBER OF SEQ ID NOS: 624
 Prior Application removed - See File Wrapper or Palm
 SEQ ID NO 161
 LENGTH: 1512
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-978-608A-161

Query Match 100.0%; Score 1512; DB 10; Length 1512;
 Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CGAGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 60
 Db 1 CGAGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 60
 QY 61 GGGCTTACGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
 Db 61 GGGCTTACGGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
 QY 121 CGAGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
 Db 121 CGAGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
 QY 181 ATGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
 Db 181 ATGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
 QY 241 ACAGAGATGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
 Db 241 ACAGAGATGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
 QY 301 TCTTCTTGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
 Db 301 TCTTCTTGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
 QY 361 TGCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
 Db 361 TGCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
 QY 421 GCTTCTTCAACCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480
 Db 421 GCTTCTTCAACCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480
 QY 481 CTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540
 Db 481 CTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540

QY 541 CCTGAGCTTACCAAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 600
 Db 541 CCTGAGCTTACCAAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 600
 QY 601 CCAGTCCGAGCCCAACAGCTGCTTACAGCTTACAGCTTACAGCTTACAGCTTACAGCTTAC 660
 Db 601 CCAGTCCGAGCCCAACAGCTGCTTACAGCTTACAGCTTACAGCTTACAGCTTACAGCTTAC 660
 QY 661 AACAGCCACCTTACCAAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 720
 Db 661 AACAGCCACCTTACCAAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 720
 QY 721 ACTGAGTGGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 780
 Db 721 ACTGAGTGGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 780
 QY 781 TTCCATCAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 840
 Db 781 TTCCATCAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 840
 QY 841 TGACACAGAGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 900
 Db 841 TGACACAGAGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 900
 QY 901 CCTGAGTGGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 960
 Db 901 CCTGAGTGGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 960
 QY 961 TTTTACGATGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1020
 Db 961 TTTTACGATGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1020
 QY 1021 CCAGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1080
 Db 1021 CCAGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1080
 QY 1081 CGTGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1140
 Db 1081 CGTGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1140
 QY 1141 CCTGAGTGGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1200
 Db 1141 CCTGAGTGGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1200
 QY 1201 CCAGTGGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1260
 Db 1201 CCAGTGGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1260
 QY 1261 TGGTGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1320
 Db 1261 TGGTGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1320
 QY 1321 GGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1380
 Db 1321 GGGAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1380
 QY 1381 GAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1440
 Db 1381 GAGGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1440
 QY 1441 TATTAATGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1500
 Db 1441 TATTAATGCTTACAGGCTTACAAAGGCTGGGAGAGCTTATCATCAATTAATGCTTGAAC 1500
 QY 1501 TCTCATTAAG 1512
 Db 1501 TCTCATTAAG 1512

RESULT 7
 US-09-978-585A-161
 ; Sequence 161, Application US/0978585A

Publication No. US20030049633A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi
 APPLICANT: Baker Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnovers, Luc
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleon
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerltsen, Mary E.
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Guiney, Austin L.
 APPLICANT: Hillan, Kenneth J.
 APPLICANT: Kijavlin, Ivar J.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Peom, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Shelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE OF INVENTION: Acids Encoding the Same
 FILE REFERENCE: P2630P1C15
 CURRENT APPLICATION NUMBER: US/09/978,585A
 CURRENT FILING DATE: 2001-10-16
 NUMBER OF SEQ ID NOS: 624
 Prior Application removed - See File Wrapper or Palm
 SEQ ID NO 161
 LENGTH: 1512
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-978-585A-161
 Query Match 100.0%; Score 1512; DB 10; Length 1512;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CGAGCGCTGGGCGAGCGGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 60
 Db 1 CGAGCGCTGGGCGAGCGGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 60
 QY 61 GGGCTTACCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
 Db 61 GGGCTTACCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
 QY 121 CGAGGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
 Db 121 CGAGGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
 QY 181 ATGTGAGGCTTACAGCAATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
 Db 181 ATGTGAGGCTTACAGCAATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
 QY 241 ACAGAGATGCTTACAGCAATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 300
 Db 241 ACAGAGATGCTTACAGCAATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 300
 QY 301 TCTTCTTGGTGTGAGCGGCTTACAGCAATGCGGCGGCGGCGGCGGCGGCGGCGGCGG 360
 Db 301 TCTTCTTGGTGTGAGCGGCTTACAGCAATGCGGCGGCGGCGGCGGCGGCGGCGGCGG 360
 QY 361 TGGTATGCTTACAGCAATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 420
 Db 361 TGGTATGCTTACAGCAATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 420

QY 421 GCTTCCTCAACCAACAGTGGGAGTACCAACCCGAGAGAGTGGTGGGAGGCGAGCT 480
DB 421 GCTTCCTCAACCAACAGTGGGAGTACCAACCCGAGAGAGTGGTGGGAGGCGAGCT 480
QY 481 CTGTGAGGAGGAGCATCACTCAGCTTCCTTCATCTTCCTCCCTGGGAGTGGTGGGCT 540
DB 481 CTGTGAGGAGGAGCATCACTCAGCTTCCTTCATCTTCCTCCCTGGGAGTGGTGGGCT 540
QY 541 CCTTGGCTTACCAAGGCTTGGGAGGAGTGGGAGTGGGAGTGGGAGTGGGAGTGGGAGT 600
DB 541 CCTTGGCTTACCAAGGCTTGGGAGGAGTGGGAGTGGGAGTGGGAGTGGGAGTGGGAGT 600
QY 601 CCACTCCGAGAGGAGGAGTGGGAGTGGGAGTGGGAGTGGGAGTGGGAGTGGGAGTGGG 660
DB 601 CCACTCCGAGAGGAGGAGTGGGAGTGGGAGTGGGAGTGGGAGTGGGAGTGGGAGTGGG 660
QY 661 AACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720
DB 661 AACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720
QY 721 ACTGAGTGGGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 780
DB 721 ACTGAGTGGGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 780
QY 781 TTTCCCATCAGCTTCTGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
DB 781 TTTCCCATCAGCTTCTGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
QY 841 TGAACACACAGTGAAGAGGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 900
DB 841 TGAACACACAGTGAAGAGGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 900
QY 901 CCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 960
DB 901 CCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGT 960
QY 961 TTTTAACTAGTGTCT 1020
DB 961 TTTTAACTAGTGTCT 1020
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RESULT 8
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Sequence 161, Application US/09978191A
Publication No. US2003050239A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, U. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoli, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OR INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C4
CURRENT APPLICATION NUMBER: US/09/978, 191A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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APPLICANT: Stewart, Timothy A.
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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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Best Local Similarity      100.0%; Pred. No. 0;
Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Publication No. US20030054405A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David

Fri Apr 9 09:23:59 2004

us-10-020-445a-161.inpb

Page 21

APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gettsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Klujavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P26301C65
CURRENT FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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38 PRIOR APPLICATION NUMBER: 60/085689
39 PRIOR FILING DATE: 1998-05-15
40 PRIOR APPLICATION NUMBER: 60/085579
41 PRIOR FILING DATE: 1998-05-15
42 PRIOR APPLICATION NUMBER: 60/085580
43 PRIOR FILING DATE: 1998-05-15
44 PRIOR APPLICATION NUMBER: 60/085573
45 PRIOR FILING DATE: 1998-05-15
46 PRIOR APPLICATION NUMBER: 60/085704
47 PRIOR FILING DATE: 1998-05-15
48 PRIOR APPLICATION NUMBER: 60/085697

[illegible]

QY	301	TTCTTCTTGATGCTGACGCGTAATTTCCCGAGATCAGCAACGGCACGACGACGAAGAAC	360
Db	301	TCCTCTTGATGCTGACGCGTAATTTCCCGAGATCAGCAACGGCACGACGACGAAGAAC	360
QY	361	TGATCATTTGATGACTGCTCTTCTCAGACTCTTGGAACCTTCTGTGGTTTGTGGTTTCT	420
Db	361	TGATCATTTGATGACTGCTCTTCTCAGACTCTTGGAACCTTCTGTGGTTTGTGGTTTCT	420
QY	421	GCTTCCTCAACCAACCAATGGGAGATCAACCAACCGAAGAGACGTGTGGTGGGGGCGACT	480
Db	421	GCTTCCTCAACCAACCAATGGGAGATCAACCAACCGAAGAGACGTGTGGTGGGGGCGACT	480
QY	481	CTGTGAGGAGACCCATCACTTCAAGCTTCTTTTCACTTCTCTGTGGATGTGTGCGCT	540
Db	481	CTGTGAGGAGACCCATCACTTCAAGCTTCTTTTCACTTCTCTGTGGATGTGTGCGCT	540
QY	541	CCCGGGGCTTACAGGGGCTACAGGGCTGGGGTGGAGCGACTCATCCAGAATTAAGTTAGC	600
Db	541	CCCGGGGCTTACAGGGGCTTACAGGGCTGGGGTGGAGCGACTCATTCAGAAATTAGTTAGC	600
QY	601	CCACTCCGGAACCCCAACACTGCTTACGCGCTTACCCAGGTGATCTGTGGACAACTAAC	660
Db	601	CCACTCCGGAACCCCAACACTGCTTACGCGCTTACCCAGGTGATCTGTGGACAACTAAC	660
QY	661	AACAGCAACCCCTTACCCAGAACGGGAGACCAACCGAGGCTAACCAACGCCGCCCTGTGT	720
Db	661	AACAGCAACCCCTTACCCAGAACGGGAGACCAACCGAGGCTAACCAACGCCGCCCTGTGT	720
QY	721	ACTGATGGCGGTTTACGCTGAGAAAGGGGAGCAAGAGAGGACCTTCCTCTTGCCCTGACT	780
Db	721	ACTGATGGCGGTTTACGCTGAGAAAGGGGAGCAAGAGAGGACCTTCCTCTTGCCCTGACT	780
QY	781	TTCCCATCAGGCTCCTGGAACCTGGCAGACCCCTCTCTTCACTGTTTCATCTCTGTGAGC	840
Db	781	TTCCCATCAGGCTCCTGGAACCTGGCAGACCCCTCTCTTCACTGTTTCATCTGTGAGC	840
QY	841	TGACACACAGCTTAAGAGGCTCATAGCTTGCGGGGCTGGCAGAGCAACCCCAAAGTG	900
Db	841	TGACACACAGCTTAAGAGGCTCATAGCTTGCGGGGCTGGCAGAGCAACCCCAAAGTG	900
QY	901	CCTGTGCCAAGAGGGCTTCAGTACGCGCTCACTCCTCCAGGGCACTTTTAAAGAAAGGT	960
Db	901	CCTGTGCCAAGAGGGCTTCAGTACGCGCTCACTCCTCCAGGGCACTTTTAAAGAAAGGT	960
QY	961	TTTTAGCTAGTGTTTTCTCGCTTTTAATGACTCAGCCCCGCTGCAATGGCTAGAAG	1020
Db	961	TTTTAGCTAGTGTTTTCTCGCTTTTAATGACTCAGCCCCGCTGCAATGGCTAGAAG	1020
QY	1021	CCAGCAGGTGCCCATGTGCTACTGACAAAGTGCTCAGCTTCCGCCCGGCCCGAGTCAAGC	1080
Db	1021	CCAGCAGGTGCCCATGTGCTACTGACAAAGTGCTCAGCTTCCGCCCGGCCCGAGTCAAGC	1080
QY	1081	CGTGGGAGCCGTAATTAATGCGCTTCTCAGCAAGCTGTGGGAGCATACACCTTGC	1140
Db	1081	CGTGGGAGCCGTAATTAATGCGCTTCTCAGCAAGCTGTGGGAGCATACACCTTGC	1140
QY	1141	CCTGTGACGAGCCGAGCCAGACTTTTGTGCTTCACTCAGATTTGCTTCCCTGTGC	1200
Db	1141	CCTGTGACGAGCCGAGCCAGACTTTTGTGCTTCACTCAGATTTGCTTCCCTGTGC	1200
QY	1201	CCACTGCTGATGATCTGAGGGGCAACACCTGTGCGGGGCTCTGGGGCTGCTCCG	1260
Db	1201	CCACTGCTGATGATCTGAGGGGCAACACCTGTGCGGGGCTCTGGGGCTGCTCCG	1260
QY	1261	TGATGTAGAGGCGGGGCTGTGCTCATGGACTTCTCTTGCTCCACCCCTTGGACGA	1320
Db	1261	TGATGTAGAGGCGGGGCTGTGCTCATGGACTTCTCTTGCTCCACCCCTTGGACGA	1320
QY	1321	GGGAAGGGCTTTGGCTGACAACAACCAAGCTTTATGTAAATTTCTGCAATGTATTACTAG	1380
Db	1321	GGGAAGGGCTTTGGCTGACAACAACCAAGCTTTATGTAAATTTCTGCAATGTATTACTAG	1380
QY	1381	GAAAGCTTGGAGAGGAGGGGTGCCCATGGCTCCAGACTCTGTCTGTGCCAGATGAT	1440

Db	1381	GAAGCTCGGGAGGGCGAGGGGGTGGCCCATGGCTCCCAAGACTCTGCTCTGCGCACTGAT	1440
OY	1441	TATTAATTCGTGGGGGAATATGCCCGGCTTGGGATCTGTTGGAGAACGGAATTAATGTTT	15000
Db	1441	TATTAATTCGTGGGGGAATATGCCCGGCTTGGGATCTGTTGGAGAACGGAATTAATGTTT	15000
OY	1501	TCTCATTCAAAG	1512
Db	1501	TCTCATTCAAAG	1512

1	PRIOR APPLICATION NUMBER: 60/07893
2	PRIOR FILING DATE: 1998-03-20
3	PRIOR APPLICATION NUMBER: 60/07891
4	PRIOR FILING DATE: 1998-03-20
5	PRIOR APPLICATION NUMBER: 60/07893
6	PRIOR FILING DATE: 1998-03-20
7	PRIOR APPLICATION NUMBER: 60/07929
8	PRIOR FILING DATE: 1998-03-25
9	PRIOR APPLICATION NUMBER: 60/07965
10	PRIOR FILING DATE: 1998-03-25
11	PRIOR APPLICATION NUMBER: 60/07966
12	PRIOR FILING DATE: 1998-03-25
13	PRIOR APPLICATION NUMBER: 60/07968
14	PRIOR FILING DATE: 1998-03-27
15	PRIOR APPLICATION NUMBER: 60/07966
16	PRIOR FILING DATE: 1998-03-27
17	PRIOR APPLICATION NUMBER: 60/07922
18	PRIOR FILING DATE: 1998-03-27
19	PRIOR APPLICATION NUMBER: 60/08010
20	PRIOR FILING DATE: 1998-03-31
21	PRIOR APPLICATION NUMBER: 60/08010
22	PRIOR FILING DATE: 1998-03-31
23	PRIOR APPLICATION NUMBER: 60/08010
24	PRIOR FILING DATE: 1998-03-31
25	PRIOR APPLICATION NUMBER: 60/08016
26	PRIOR FILING DATE: 1998-03-31
27	PRIOR APPLICATION NUMBER: 60/08033
28	PRIOR FILING DATE: 1998-04-01
29	PRIOR APPLICATION NUMBER: 60/08033
30	PRIOR FILING DATE: 1998-04-01
31	PRIOR APPLICATION NUMBER: 60/08033
32	PRIOR FILING DATE: 1998-04-01
33	PRIOR APPLICATION NUMBER: 60/08107
34	PRIOR FILING DATE: 1998-04-08
35	PRIOR APPLICATION NUMBER: 60/08104
36	PRIOR FILING DATE: 1998-04-08
37	PRIOR APPLICATION NUMBER: 60/08107
38	PRIOR FILING DATE: 1998-04-08
39	PRIOR APPLICATION NUMBER: 60/08119
40	PRIOR FILING DATE: 1998-04-15
41	PRIOR APPLICATION NUMBER: 60/08256
42	PRIOR FILING DATE: 1998-04-21
43	PRIOR APPLICATION NUMBER: 60/08256
44	PRIOR FILING DATE: 1998-04-21
45	PRIOR APPLICATION NUMBER: 60/08270
46	PRIOR FILING DATE: 1998-04-22
47	PRIOR APPLICATION NUMBER: 60/08280
48	PRIOR FILING DATE: 1998-04-22
49	PRIOR APPLICATION NUMBER: 60/08270
50	PRIOR FILING DATE: 1998-04-22
51	PRIOR APPLICATION NUMBER: 60/08277

1	PRIOR FILING DATE: 1998-04-22	
2	PRIOR APPLICATION NUMBER: 60/082196	
3	PRIOR FILING DATE: 1998-04-23	
4	PRIOR APPLICATION NUMBER: 60/083336	
5	PRIOR FILING DATE: 1998-04-27	
6	PRIOR APPLICATION NUMBER: 60/083322	
7	PRIOR FILING DATE: 1998-04-28	
8	PRIOR APPLICATION NUMBER: 60/083192	
9	PRIOR FILING DATE: 1998-04-29	
10	PRIOR APPLICATION NUMBER: 60/083495	
11	PRIOR FILING DATE: 1998-04-29	
12	PRIOR APPLICATION NUMBER: 60/083496	
13	PRIOR FILING DATE: 1998-04-29	
14	PRIOR APPLICATION NUMBER: 60/083499	
15	PRIOR FILING DATE: 1998-04-29	
16	PRIOR APPLICATION NUMBER: 60/083545	
17	PRIOR FILING DATE: 1998-04-29	
18	PRIOR APPLICATION NUMBER: 60/083554	
19	PRIOR FILING DATE: 1998-04-29	
20	PRIOR APPLICATION NUMBER: 60/083558	
21	PRIOR FILING DATE: 1998-04-29	
22	PRIOR APPLICATION NUMBER: 60/083559	
23	PRIOR FILING DATE: 1998-04-29	
24	PRIOR APPLICATION NUMBER: 60/083500	
25	PRIOR FILING DATE: 1998-04-29	
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28	PRIOR APPLICATION NUMBER: 60/084366	
29	PRIOR FILING DATE: 1998-05-05	
30	PRIOR APPLICATION NUMBER: 60/084414	
31	PRIOR FILING DATE: 1998-05-06	
32	PRIOR APPLICATION NUMBER: 60/084441	
33	PRIOR FILING DATE: 1998-05-06	
34	PRIOR APPLICATION NUMBER: 60/084637	
35	PRIOR FILING DATE: 1998-05-07	
36	PRIOR APPLICATION NUMBER: 60/084639	
37	PRIOR FILING DATE: 1998-05-07	
38	PRIOR APPLICATION NUMBER: 60/084640	
39	PRIOR FILING DATE: 1998-05-07	
40	PRIOR APPLICATION NUMBER: 60/084598	
41	PRIOR FILING DATE: 1998-05-07	
42	PRIOR APPLICATION NUMBER: 60/084600	
43	PRIOR FILING DATE: 1998-05-07	
44	PRIOR APPLICATION NUMBER: 60/084627	
45	PRIOR FILING DATE: 1998-05-07	
46	PRIOR APPLICATION NUMBER: 60/084643	
47	PRIOR FILING DATE: 1998-05-07	
48	PRIOR APPLICATION NUMBER: 60/085339	
49	PRIOR FILING DATE: 1998-05-13	
50	PRIOR APPLICATION NUMBER: 60/085338	
51	PRIOR FILING DATE: 1998-05-13	
52	PRIOR APPLICATION NUMBER: 60/085323	
53	PRIOR FILING DATE: 1998-05-13	
54	PRIOR APPLICATION NUMBER: 60/085582	
55	PRIOR FILING DATE: 1998-05-15	
56	PRIOR APPLICATION NUMBER: 60/085700	
57	PRIOR FILING DATE: 1998-05-15	
58	PRIOR APPLICATION NUMBER: 60/085689	
59	PRIOR FILING DATE: 1998-05-15	
60	PRIOR APPLICATION NUMBER: 60/085579	
61	PRIOR FILING DATE: 1998-05-15	
62	PRIOR APPLICATION NUMBER: 60/085580	
63	PRIOR FILING DATE: 1998-05-15	
64	PRIOR APPLICATION NUMBER: 60/085573	
65	PRIOR FILING DATE: 1998-05-15	
66	PRIOR APPLICATION NUMBER: 60/085704	
67	PRIOR FILING DATE: 1998-05-15	
68	PRIOR APPLICATION NUMBER: 60/085697	

Query Match	100.0%;	Score 1512;	DB 10;	Length 1512;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1512;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;

[illegible]

Db 1081 CGTGGAGCGCGTATTATCTGCGTCTCGCCAAAGCTGAGGGGCCATGACACCTGC 1140
Qy 1141 CCGTGCAGCGGAGCGCGGACCGAGCTCTGTGTCTCTCACTCAAGTTGCTTCCCTGTGC 1200
Db 1141 CCGTGCAGCGGAGCGCGGACCGAGCTCTGTGTCTCTCACTCAAGTTGCTTCCCTGTGC 1200
Qy 1201 CCACTGCTGATGATCTGGGGGGCCACACCTGTGCGGTGCGCTGAGGCTGCCGCG 1260
Db 1201 CCACTGCTGATGATCTGGGGGGCCACACCTGTGCGGTGCGGTGCGCTGCCGCG 1260
Qy 1261 TGGTGGAGGGCGGGGCTGTGTCTATGAGCACTTCTCTGTGCTCCACCTCGGAGCA 1320
Db 1261 TGGTGGAGGGCGGGGCTGTGTCTATGAGCACTTCTCTGTGCTCCACCTCGGAGCA 1320
Qy 1321 GGGAGGGCTTTGCTCTGACACACCGAGCTTATGTAATATTCTGCACTGTTACTTG 1380
Db 1321 GGGAGGGCTTTGCTCTGACACACCGAGCTTATGTAATATTCTGCACTGTTACTTG 1380
Qy 1381 GAAAGCTGGGAGGGGAGGGGGTCCCATGCTCCAGACTGTCTGTGCGAGGTAT 1440
Db 1381 GAAAGCTGGGAGGGGAGGGGGTCCCATGCTCCAGACTGTCTGTGCGAGGTAT 1440
Qy 1441 TATTAATGCTGGGGAGATGCGGCGCTGGAGTGTGTTGGAGACGGAAATTAATGTT 1500
Db 1441 TATTAATGCTGGGGAGATGCGGCGCTGGAGTGTGTTGGAGACGGAAATTAATGTT 1500
Qy 1501 TCTCATTCAAAG 1512
Db 1501 TCTCATTCAAAG 1512

RESULT 13
US-09-978-824-161
Sequence 161, Application US/09978824
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Auneeth L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Thomas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P14
CURRENT APPLICATION NUMBER: US/09/978,824
PRIOR FILING DATE: 2001-10-17
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
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PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
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PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
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PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
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PRIOR FILING DATE: 1998-03-31
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PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
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PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955

D	781	TTCCCATAGCTTCTGGAACTGCGACGCCCTCTCTTCAACTGTTCATCTGTGAGC	840
QY	841	TGACACACAGCTAAGAGACCCTTAGCCTGCGGGGCTGGAGAGCACACCCCAAAGT	900
D	841	TGAACAACAGTAAGAAGCCCTACAGCTCGCGGGGCTGGAGAGCACACCCCAAAGT	900
QY	901	CCTGTGCCACAGAGGCTTCACTGACGCGCTCACTCTCCAAGGCATTATGAAAAGGT	960
D	901	CCTGTGCCACAGAGGCTTCACTGACGCGCTCACTCTCCAAGGCATTATGAAAAGGT	960
QY	961	TTTTAGCTAGGTTTTCTCTGCTTTAATGACTCGACCCCGCTGCACTGTGTAAG	1020
D	961	TTTTAGCTAGGTTTTCTCTGCTTTAATGACTCGACCCCGCTGCACTGTGTAAG	1020
QY	1021	CCAGCAGGTGCCATGTGCTACTGACAAGTGCTCAGCTTCCCCCGCGCTGAGC	1080
D	1021	CCAGCAGGTGCCATGTGCTACTGACAAGTGCTCAGCTTCCCCCGCGCTGAGC	1080
QY	1081	CGTGGAGCGCCCTTATCTGCGCTTCTGTGCAAAAGCTGTGGGGGCTACACCTGC	1140
D	1081	CGTGGAGCGCCCTTATCTGCGCTTCTGTGCAAAAGCTGTGGGGGCTACACCTGC	1140
QY	1141	CCTGTGACGCGAGCCGACAGGCTTGTGTCTCACTCAGGTTGTTCCCTGTGC	1200
D	1141	CCTGTGACGCGAGCCGACAGGCTTGTGTCTCACTCAGGTTGTTCCCTGTGC	1200
QY	1201	CCACTGCTGATGATCTGCGGGGCAACACCTGTGCGGTGCTGCGCTGCTCCG	1260
D	1201	CCACTGCTGATGATCTGCGGGGCAACACCTGTGCGGTGCTGCGCTGCTCCG	1260
QY	1261	TGGGTGAGGGCGGGGCGGTGCTCATGGAACCTTCTGCTCCACCCCTGGAGCA	1320
D	1261	TGGGTGAGGGCGGGGCGGTGCTCATGGAACCTTCTGCTCCACCCCTGGAGCA	1320
QY	1321	GGAAGAGGCTTGGCTGACAAACCCAGCTTATGATAATCTGCAAGTTGTTACTAG	1380
D	1321	GGAAGAGGCTTGGCTGACAAACCCAGCTTATGATAATCTGCAAGTTGTTACTAG	1380
QY	1381	GAAGCCTGGAGAGGCGAGGTGCCCAGTGGCTCCAGACTCTGTCTGTCCGAGTAT	1440
D	1381	GAAGCCTGGAGAGGCGAGGTGCCCAGTGGCTCCAGACTCTGTCTGTCCGAGTAT	1440
QY	1441	TATATAATCTGTGGGAGATGCCCCGCTGGGATGCTGTTGGAGACGAATAATGTT	1500
D	1441	TATATAATCTGTGGGAGATGCCCCGCTGGGATGCTGTTGGAGACGAATAATGTT	1500
QY	1501	TCTCATTCAAAG	1512
D	1501	TCTCATTCAAAG	1512
RESULT 14 US-09-918-585A-161 Sequence 161, Application US/0918585A Publication No. US2003006046A1 GENERAL INFORMATION: APPLICANT: Ashkenazi, Avi APPLICANT: Baker Kevin P. APPLICANT: Botstein, David APPLICANT: Desnuyere, Luc APPLICANT: Bacon, Dan APPLICANT: Ferrara, Napoleon APPLICANT: Filvaroff, Ellen APPLICANT: Fong, Sherman APPLICANT: Gao, Wei-Qiang APPLICANT: Garber, Hanspeter APPLICANT: Gerritsen, Mary E. APPLICANT: Goddard, Audrey APPLICANT: Godowski, Paul J. APPLICANT: Grimaldi, J. Christopher APPLICANT: Gurney, Austin L. APPLICANT: Hillan, Kenneth J.			

[illegible]

PRIOR APPLICATION NUMBER: 60/084653	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084641	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084599	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084600	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084427	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084643	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/085339	PRIOR FILING DATE: 1998-05-13	PRIOR APPLICATION NUMBER: 60/085338	PRIOR FILING DATE: 1998-05-13	PRIOR APPLICATION NUMBER: 60/085323	PRIOR FILING DATE: 1998-05-13	PRIOR APPLICATION NUMBER: 60/085582	PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085700	PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085688	PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085579	PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085580	PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085573	PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085704	PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/085697	PRIOR FILING DATE: 1998-05-15	PRIOR APPLICATION NUMBER: 60/086022	PRIOR FILING DATE: 1998-05-15
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Query Match	100.0%	Score 1512;	DB 10;	Length 1512;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1512;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

[illegible]

PRIOR FILING DATE:	1998-03-27
PRIOR APPLICATION NUMBER:	60/079663
PRIOR FILING DATE:	1998-03-27
PRIOR APPLICATION NUMBER:	60/079728
PRIOR FILING DATE:	1998-03-27
PRIOR APPLICATION NUMBER:	60/079786
PRIOR FILING DATE:	1998-03-27
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PRIOR FILING DATE:	1998-04-09
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PRIOR FILING DATE:	1998-04-15
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PRIOR APPLICATION NUMBER:	60/082797
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PRIOR APPLICATION NUMBER:	60/083392
PRIOR FILING DATE:	1998-04-29
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Db	121	CGGAGGTGTGTGGCGGCGCGCGCGCTGTGTGCTTGTGGCTTGTGATCGTGTTCCTGTGATCT	180
QY	121	CGGAGGTGTGTGGCGGCGCGCGCGCTGTGTGCTTGTGGCTTGTGATCGTGTTCCTGTGATCT	180
Db	121	CGGAGGTGTGTGGCGGCGCGCGCGCGCTGTGTGCTTGTGGCTTGTGATCGTGTTCCTGTGATCT	180
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 Job time : 3247 secs


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PR 30-JUL-1998; 98US-0094651P;
PR 11-SEP-1998; 98US-0100038P;

XX (GETH ) GENENTECH INC.
XX
XX PA
XX PI Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
XX WPI: 1999-551358/46.
XX DR P-PSDB; ANY41703.
XX DR
XX
XX New secreted and transmembrane polypeptides and their polynucleotides

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PT useful for treating blood coagulation disorders, cancers and cellular
adhesion disorders.

XX Claim 2; Fig 60; 530bp; English.

XX The present invention describes secreted and transmembrane polypeptides
and their polynucleotides. The nucleotide sequences are useful as sources
of probes, primers, for chromosome mapping, and for generation of
antisense sequences. They can also be used to create transgenic animals.
The proteins can be used to treat a variety of diseases and disorders,
depending on their function. Diseases that may be treated include blood
coagulation disorders, cancers and cellular adhesion disorders. They may
also be used to raise antibodies. AA23891 to AA23438, and AA4165 to
AA41774 represent polynucleotide and polypeptide sequence given in the
embodimentation of the present invention

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Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      781 TTCCCATCAGCTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
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DT 25-JAN-2001 (first entry)
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XX immunological disorder; ss.
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XX 14-SEP-2000.
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XX 06-JAN-2000; 2000WO-US000277.
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XX 02-DEC-1999; 99WO-US028551.
XX 02-DEC-1999; 99WO-US031243.
XX 30-DEC-1999; 99WO-US031274.
XX 30-DEC-1999; 99WO-US031274.
XX
XX (GENTH ) GENENTECH INC.
XX
XX Baker KP, Desauvage FJ, Goddard A, Gurney AL, Klein RD, Roy MA,
XX Wood W.;
XX WPI; 2000-572269/53.
XX P-PSDB; AAB24048.
XX
XX New isolated antibody for use in compositions and methods for the
XX diagnosis and treatment of neoplastic cell growth and proliferation in
XX mammals, including humans, and in monitoring tumor treatment.
XX
XX Claim 50; Fig 15; 195pp; English.
XX
XX
XX The present invention describes an isolated antibody (Ab) that binds to
XX one of the human proteins (P) designated PRO213, PRO1330, PRO149,
XX PRO337, PRO324, PRO351, PRO615, PRO538, PRO3664, PRO618,
XX PRO772, PRO703, PRO792 or PRO474. The Ab can be used in compositions and
XX methods for the diagnosis and treatment of neoplastic cell growth and
XX proliferation in mammals, including humans. Genes and polypeptides
XX encoded by them, that are amplified in the genome of a tumour cell, can
XX be identified and are useful targets for the treatment and prevention of
XX certain cancers and may be used to monitor tumor treatment. Compounds
XX

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PR 02-JUN-2000; 2000WO-US015264.
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PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000WO-US032678.
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PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918565.

(GETH) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gerber H, Gerritsen ME;

Query Match	Score	DB 7	Length
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Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1381 GAGGCTTGGGAGAGGGGCAAGGGGTGCCCATGGCTCCCGAGCTCTGTCTGTGCGGAGTGTAT 1440

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[illegible]

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AC AC63333;
XX
DT 16-JUN-2003 (first entry)

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ID ACA63595 standard; cDNA; 1512 BP.

AC	ACR03333;
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DT	16-JUN-2003 (first entry)

XX DE Novel human secreted and transmembrane protein PRO65 cDNA.
 XX KM Human; secreted and transmembrane protein; PRO; anti-inflammatory;
 KM anti-atherosclerotic; cardiatic; anti-infectivity; anti-HIV; cytostatic;
 KM antidiabetic; gene therapy; inflammatory disease; organ failure;
 KM atherosclerosis; cardiac injury; infertility; birth defect;
 KM premature aging; AIDS; cancer; diabetic complication; chromosome mapping;
 KM Gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;
 KM tissue typing; gene; ss.
 OS Homo sapiens.
 XX PN US2002192706-A1.
 XX PD 19-DEC-2002.
 XX PF 24-OCT-2001; 2001US-00999832.
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 XX 21-NOV-1997; 97US-0066364P.
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 XX 08-MAR-1999; 99WO-US005028.

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 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 XX (GENTH) GENENTECH INC.
 XX PA Ashkenazi AJ, Baker KP, Botstein D, Deanyers L, Eaton DJ,
 PI Ferrara N, Flvayroff E, Fong S, Gao W, Garber H, Gerritsen ME,
 PI Goddard A, Godowski FJ, Grimaldi JC, Gurney AL, Hillan KJ,
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL,
 PI Stewart JA, Tumas D, Williams PM, Wood WI,
 XX WPI; 2003-328860/31.
 XX P-PSDB; AB072217.
 XX DR New secreted and transmembrane nucleic acids and polypeptides, designated
 PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
 PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
 PT cancer.
 XX PS Claim 2; Fig 60; 453pp; English.
 XX CC The invention describes an isolated nucleic acid (I) comprising, or which
 CC is at least 80 % sequence identity to, or the full-length coding sequence
 CC of, any of 118 300-2100 nucleotide sequences, which encodes its
 CC corresponding PRO polypeptide selected from 118 100-700 amino acid
 CC sequences, all given in the specification. The nucleic acids and
 CC polypeptides are useful for treating inflammatory diseases, organ
 CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
 CC premature aging, AIDS, cancer, or diabetic complications. The nucleic
 CC acids are useful as hybridisation probes, in chromosome and gene mapping,
 CC and in generating antisense RNA or DNA. The polypeptides are useful as
 CC pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful
 CC in tissue typing. This sequence encodes a novel human secreted and
 CC transmembrane PRO polypeptide
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SO Sequence 1512 BP; 246 A; 482 C; 446 G; 338 T; 0 U; 0 Other;
 Query Match 100.0%; Score 1512; DB 7; Length 1512;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


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RESULT 6
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DT 11-AUG-2003 (first entry)
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KW erythropoietin; colony stimulating factor; cancer; colorectal carcinoma;
KW apoptosis related condition; AIDS; amyotrophic lateral sclerosis;
KW inflammatory disease; asthma; atherosclerosis; neurodegenerative disease;
KW gastrointestinal disorder; Alzheimer's disease; Parkinson's disease;
KW hypertension; myocardial ischemia; kidney disease; carcinogenesis;
KW glomerulonephritis; lung disease; pulmonary hypertension; preeclampsia;
KW bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;
KW inflammatory bowel disease; reproductive disorder; premature labour.
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OS Homo sapiens.
XX
PN US2002177553-A1.
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PD 28-NOV-2002.
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PF 15-OCT-2001; 2001US-00978192.
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PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.

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OY	361	UGGNCATGAGGACCTGCTCTTTCTCTAGCTCTTGACCTCTCTGTGGTTTGTGGTTCT	420
Db	361	TGGTCATTGGGACCTGCTCTTCTAGCTCTTGACCTCTCTGTGGTTTGTGGTTCT	420
OY	421	GCTTCCTGACCAACCAAGTGGGAGTCACCAACCAGAGACGTGTGGTGGGGCCGACT	480
Db	421	GCTTCCTGACCAACCAAGTGGGAGTCACCAACCAGAGACGTGTGGTGGGGCCGACT	480
OY	481	CTGTAGGGGACCCANPACCTTCAGCTTCTTTCCATCTTCTCCMGGGGTGTGGGCT	540
Db	481	CTGTAGGGGACCCATTCACCTTCAGCTTCTTTTCCATCTTCTCTGGGGGTGTGGGCT	540
OY	541	CCCTGGCCTACCAAGCGCTACAAAGGCTGGCTGGAGACCTTCACCGAATTACGTTGAC	600
Db	541	CCCTGGCCTACCAAGCGCTACAAAGGCTGGGCTGGAGACCTTCACCGAATTACGTTGAC	600
OY	601	CCACTCCGGAGCCCAACACTGCTTAAGCTCTTACCACAGTGCATCTGTGACATCAC	660
Db	601	CCACTCCGGAGCCCAACACTGCTTAAGCTCTTACCACAGTGCATCTGTGACATCAC	660
OY	661	AACAGCCACCTTTCACCCAGAAACGCGAGAACCAACCGAGGCTAACAGCCGCCCTGTGT	720
Db	661	AACAGCCACCTTTCACCCAGAAACGCGAGAACCAACCGAGGCTAACAGCCGCCCTGTGT	720
OY	721	ACTGAGTGGCGGTTTGGCGTGGGGAAGAGGGGACCCCTCCCTCTGCGCTGACT	780
Db	721	ACTGAGTGGCGGTTTGGCGTGGGGAAGAGAGGAGCCCTCCCTCTGCGCTGACT	780
OY	781	TTCCCATCAGCCTCTGGAACCTGCAGCCCTCTCTTTTCAACCTGTTCCATCTGTGAC	840
Db	781	TTCCCATCAGCCTCTGGAACCTGCAGCCCTCTCTTTTCAACCTGTTCCATCTGTGAC	840
OY	841	TGACACACAGCTTAAGAGGCTCATGACCTGGGGGGGCTGGAGAGCAACCCCAATG	900
Db	841	TGACACACAGCTTAAGAGGCTCATGACCTGGGGGGGCTGGAGAGCAACCCCAATG	900
OY	901	CCTGTGCCAAGAGGGCTTCAGTACGCGGCTCACTCTTCAGAGGACCTTTTAGAAAGGT	960
Db	901	CCTGTGCCAAGAGGGCTTCAGTACGCGCTCACTCTTCAGAGGACCTTTTAGAAAGGT	960
OY	961	TTTTAGCTAGTGTCTTCTCGCTTTTATGACCTCAGCCCGGCGCTGAGAGGACTAGAG	1020
Db	961	TTTTAGCTAGTGTCTTCTCGCTTTTATGACCTCAGCCCGGCTGAGAGGACTAGAG	1020
OY	1021	CCAGCAGGTGCCCATGTGCTACTGCAAGTGTCTAGCTTCCCCCGGCGGACTCAGGC	1080
Db	1021	CCAGCAGGTGCCCATGTGCTACTGCAAGTGTCTAGCTTCCCCCGGCGGACTCAGGC	1080
OY	1081	CGTGGAGACCGGTATTTATCTGGGTTCTCTGCAAAAGACTGGGGGGGCAATCACACTGC	1140
Db	1081	CGTGGAGACCGGTATTTATCTGGGTTCTCTGCAAAAGACTGGGGGGGCAATCACACTGC	1140
OY	1141	CCTGTGCAAGCGAGCCGGAACAAGCTCTTGTGTCTCTCACTCAGGTTTCTTCCCTGTGC	1200
Db	1141	CCTGTGCAAGCGAGCCGGAACAAGCTCTTGTGTCTCTCACTCAGGTTTCTTCCCTGTGC	1200
OY	1201	CCACTGCTGTATGATCTGGGGGGGCAACACCCTGTGCGGCTCTGAGGCTGCCTCCGC	1260
Db	1201	CCACTGCTGTATGATCTGGGGGGGCAACACCCTGTGCGGCTCTTGGGCTGCCTCCGC	1260
OY	1261	TGGTGTGAGGGCGGGGCTGGTGTCTATGAGCACTTCTCTTGTCTCCACCCCTGGACGA	1320
Db	1261	TGGTGTGAGGGCGGGGCTGGTGTCTATGAGCACTTCTCTTGTCTCCACCCCTGGACGA	1320
OY	1321	GGAGAGGGCTTTGCTGTACAACCCCACTTATATTAATTTCTGCAAGTGTACTTAG	1380
Db	1321	GGAGAGGGCTTTGCTGTACAACCCCACTTATATTAATTTCTGCAAGTGTACTTAG	1380
OY	1381	GAAAGCTTGGAGAGGACAGGGGTGCCCATAGGCTCCCAAGATCTGTCTGTGCCAGTGTAT	1440
Db	1381	GAAAGCTTGGAGAGGACAGGGGTGCCCATAGGCTCCCAAGATCTGTCTGTGCCAGTGTAT	1440

OY		1441	TATAAATCGGGGAGATGCCCGGCTGGGATGCTGTGGAGAAGAAATATGTTT	1500
Db		1441	TATTAATCGGGGGAGATCCCGCCTGGGATGCTGTGGAGACGAATATATGTTT	1500
OY		1501	TCTCATTCGAAG	1512
Db		1501	TCTCATTCGAAG	1512
RESULT 7				
ID	ABX92399		standard; cDNA, 1512 BP.	
XX				
AC	ABX92399;			
XX				
DT	08-MAY-2003	(first entry)		
XX				
DE	cDNA encoding human PRO615 polypeptide.			
KW	Human; PRO polypeptide; secreted and transmembrane protein;			
KM	immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;			
KW	cardiac insufficiency; nervous system disorder; kidney disorder;			
KV	bone disorder; cartilage disorder; arthritis; tumour; wound healing;			
KW	genetic disorder; cystostatic; antidiabetic; antiinflammatory;			
KM	antiarthritic; anti-tumour; vulnery; antinaemic; dermatolog;cal;			
KW	cardiant; gene; ss.			
XX				
OS	Homo sapiens.			
XX				
PN	US2002169284-A1.			
XX				
PD	14-NOV-2002.			
XX				
PF	16-OCT-2001; 2001US-00978697.			
XX				
PR	26-MAY-1981; 81US-00267213.			
PR	17-OCT-1987; 97US-0062250P.			
PR	03-NOV-1997; 97US-0064249P.			
PR	13-NOV-1997; 97US-0065311P.			
PR	21-NOV-1997; 98US-0066364P.			
PR	10-MAR-1998; 98US-0077450P.			
PR	11-MAR-1998; 98US-0077632P.			
PR	11-MAR-1998; 98US-0077641P.			
PR	12-MAR-1998; 98US-0077649P.			
PR	12-MAR-1998; 98US-0077791P.			
PR	13-MAR-1998; 98US-0078004P.			
PR	17-MAR-1998; 98US-0004022O.			
PR	20-MAR-1998; 98US-0078886P.			
PR	20-MAR-1998; 98US-0078910P.			
PR	20-MAR-1998; 98US-0078936P.			
PR	20-MAR-1998; 98US-0078939P.			
PR	25-MAR-1998; 98US-0079284P.			
PR	26-MAR-1998; 98US-0079656P.			
PR	27-MAR-1998; 98US-0079663P.			
PR	27-MAR-1998; 98US-0079664P.			
PR	27-MAR-1998; 98US-0079689P.			
PR	27-MAR-1998; 98US-0079728P.			
PR	27-MAR-1998; 98US-0079786P.			
PR	30-MAR-1998; 98US-0079920P.			
PR	30-MAR-1998; 98US-0079923P.			
PR	26-JUN-1998; 98US-00105613.			
PR	07-OCT-1998; 98US-00168978.			
PR	07-OCT-1998; 98WO-US021141.			
PR	02-NOV-1998; 98US-00184216.			
PR	06-NOV-1998; 98US-00187368.			
PR	20-NOV-1998; 98WO-US024855.			
PR	07-DEC-1998; 98US-00202054.			
PR	22-DEC-1998; 98US-00218517.			
PR	05-JAN-1999; 99WO-US000106.			
PR	05-MAR-1999; 98US-00254465.			
PR	08-MAR-1999; 99WO-US005028.			
PR	10-MAR-1999; 99US-00265686.			
PR	10-MAR-1999; 99WO-US005190.			

QY 781 TTCCCATGAGCCTCCTGGAACGCGAGCCCTCTTCACTGTTCCATCTGTGACG 840
Db 781 TTCCCATGAGCCTCCTGGAACGCGAGCCCTCTTCACTGTTCCATCTGTGACG 840
QY 841 TGACACAGAGCTAAGAGAGCTCTATAGCCTGGCGGGGCTGGCAGAGCCACCCCAAGT 900
Db 841 TGACACAGAGCTAAGAGAGCTCTATAGCCTGGCGGGGCTGGCAGAGCCACCCCAAGT 900
QY 901 CCTGCGCCAGAGGGCTTCACTGACGCGCTCACTCTCTCAAGGCACTTTTGGAAAGGT 960
Db 901 CCTGCGCCAGAGGGCTTCACTGACGCGCTCACTCTCTCAAGGCACTTTTGGAAAGGT 960
QY 961 TTTAGTAGTAGTTTCTCTGCTTATGAGCTCAAGCTCCGCGCTGAGTGGCTAGAG 1020
Db 961 TTTAGTAGTAGTTTCTCTGCTTATGAGCTCAAGCTCCGCGCTGAGTGGCTAGAG 1020
QY 1021 CCAGCAGGTGCCCATGCTGCTGACAAAGTGCCTCACTTCCCCCGGCGGCTCAGGC 1080
Db 1021 CCAGCAGGTGCCCATGCTGCTGACAAAGTGCCTCACTTCCCCCGGCGGCTCAGGC 1080
QY 1081 CGTGGAGCGGCTATATCTGCTGCTGCGCAAGACTGCGGGGAGCATCAGACCTGC 1140
Db 1081 CGTGGAGCGGCTATATCTGCTGCTGCGCAAGACTGCGGGGAGCATCAGACCTGC 1140
QY 1141 CCTGTGACAGCGAGCGGACAGGCTTGTGTCTCACTCAGGTTGCTTCCCTGTGC 1200
Db 1141 CCTGTGACAGCGAGCGGACAGGCTTGTGTCTCACTCAGGTTGCTTCCCTGTGC 1200
QY 1201 CCACGCTGTAATGATCTGGGGGCGACCACTGCGCGGCTGCGGCTGCTCCCG 1260
Db 1201 CCACGCTGTAATGATCTGGGGGCGACCACTGCGCGGCTGCGGCTGCTCCCG 1260
QY 1261 TGTGTGAGGGGCGGGCTGTGCTCATGCACTTCTCTTGTCTCCACCCCTGACGA 1320
Db 1261 TGTGTGAGGGGCGGGCTGTGCTCATGCACTTCTCTTGTCTCCACCCCTGACGA 1320
QY 1321 GGGAGGGGCTTTGCTGACCAACACCCAGCTTTATGTAATATCTGCACTGTTACTTAG 1380
Db 1321 GGGAGGGGCTTTGCTGACCAACACCCAGCTTTATGTAATATCTGCACTGTTACTTAG 1380
QY 1381 GAAGCCTGGGAGGCGAGGGGTGCCCATGCTGCCAGCTCTGTGTCGAGTAT 1440
Db 1381 GAAGCCTGGGAGGCGAGGGGTGCCCATGCTGCCAGCTCTGTGTCGAGTAT 1440
QY 1441 TATTAATCTGTGGGAGATGCCGCGCTGGATGCTTTGGAGACGGAATTAATGTTT 1500
Db 1441 TATTAATCTGTGGGAGATGCCGCGCTGGATGCTTTGGAGACGGAATTAATGTTT 1500
QY 1501 TCTCATTCAGAG 1512
Db 1501 TCTCATTCAGAG 1512

RESULT 8
ACA66140
ID ACA66140 standard; cDNA; 1512 BP.
XX
AC ACA66140;
XX
DT 24-JUN-2003 (first entry)
XX
DE Human cDNA encoding secreted/transmembrane protein PRO615.
XX
KW Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW malignancy; cancer; ovarian cancer; colorectal cancer; sarcoma;
KW leukemia; lymphoma; inflammatory disease; necrosis; atherosclerosis;
KW infertility; premature aging; psoriasis; inflammatory disease;
KW renal disease; arthritis; immune-mediated alopecia; stroke; encephalitis;
KW hepatitis; multiple sclerosis; gene therapy.
OS
XX Homo sapiens.
XX

PN US2003004102-A1.
XX 02-JAN-2003.
XX
PF 15-OCT-2001; 2001US-00978189.
XX
XX 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 25-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 25-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 25-JUN-1998; 98US-00105413.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98US-00211141.
PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98US-0024855.
PR 07-DEC-1998; 98US-00202054.
PR 22-DEC-1998; 98US-00218517.
PR 05-JAN-1999; 99US-00000106.
PR 05-MAR-1999; 99US-00254465.
PR 08-MAR-1999; 99US-00265028.
PR 10-MAR-1999; 99US-00265686.
PR 10-MAR-1999; 99US-00265190.
PR 12-MAR-1999; 99US-00267213.
PR 12-APR-1999; 99US-00284291.
PR 14-MAY-1999; 99US-00311832.
PR 02-JUN-1999; 99US-00312252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380142.
PR 30-NOV-1999; 99US-00382313.
PR 02-DEC-1999; 99US-00382851.
PR 02-DEC-1999; 99US-00382855.
PR 16-DEC-1999; 99US-00390095.
PR 30-DEC-1999; 99US-00391243.
PR 30-DEC-1999; 99US-00391274.
PR 05-JAN-2000; 2000US-0000219.
PR 05-JAN-2000; 2000US-0000277.
PR 06-JAN-2000; 2000US-0000376.
PR 11-FEB-2000; 2000US-0000385.
PR 18-FEB-2000; 2000US-0004341.
PR 24-FEB-2000; 2000US-0005004.
PR 01-MAR-2000; 2000US-0005601.
PR 10-MAR-2000; 2000US-0005841.
PR 21-MAR-2000; 2000US-0006319.
PR 30-MAR-2000; 2000US-0006435.
PR 30-MAR-2000; 2000US-0006435.
PR 17-MAY-2000; 2000US-0013705.
PR 22-MAY-2000; 2000US-0014042.
PR 30-MAY-2000; 2000US-0014941.
PR 02-JUN-2000; 2000US-0015264.
PR 28-JUL-2000; 2000US-0020710.

Db	961	TTTAGCTAGTAGTGTTCCTCGCTTTTATAGCCGACGCCCGCTGAGTGGCTAGAG	1020
Qy	1021	CCAGCAGGTGCCCCATGTGTCTCTGCAAAAGTGCTCTGATTTCCCCCGGCGGTCAAGC	1080
Db	1021	CCACCAAGGTGCCCCATGTGTCTCTGCAAAAGTGCTCTGATTTCCCCCGGCGGTCAAGC	1080
Qy	1081	CGTGGGAGCCGCTATTATCTGCTCTCTGCAAAAGATCGTGGGGGCGCATCAACCTGC	1140
Db	1081	CGTGGGAGCCGCTATTATCTGCTCTCTGCAAAAGATCGTGGGGGCGCATCAACCTGC	1140
Qy	1141	CTGTGTCAGCGGAGCGGACCAAGGCTCTTGTCCTCACTCAGGTTTGCTTCCCTGTGC	1200
Db	1141	CTGTGTCAGCGGAGCGGACCAAGGCTCTTGTCCTCACTCAGGTTTGCTTCCCTGTGC	1200
Qy	1201	CCACTGCTGTATGATCTGGGGGGCCACGACCCGTGCGGGGTGCGGTGCGCTGCCG	1260
Db	1201	CCACTGCTGTATGATCTGGGGGGCCACGACCCGTGCGGGGTGCGGTGCGCTGCCG	1260
Qy	1261	TGCTGTGAGGGCGGGGCTGTGTCTCATGAGCATTCCTCTTGCTCCACCCCTGGCAGCA	1320
Db	1261	TGCTGTGAGGGCGGGGCTGTGTCTCATGAGCATTCCTCTTGCTCCACCCCTGGCAGCA	1320
Qy	1321	GGGAGAGGCTTTGCCTGACAACCCAGACTTATGTAAATATCTGCGAGTTGTACTTAG	1380
Db	1321	GGGAGAGGCTTTGCCTGACAACCCAGACTTATGTAAATATCTGCGAGTTGTACTTAG	1380
Qy	1381	GAAAGCTTGGGAGAGGGCAGGGGCCCCATGAGCTCCAGACTCTGTCTGCGAGTGTAT	1440
Db	1381	GAAAGCTTGGGAGAGGGCAGGGGCCCCATGAGCTCCAGACTCTGTCTGCGAGTGTAT	1440
Qy	1441	TATATAATCGTGGGGAGATGCCGGCTTGGGATGCTTTTGGAGACGGAATTAATGTTT	1500
Db	1441	TATATAATCGTGGGGAGATGCCGGCTTGGGATGCTTTTGGAGACGGAATTAATGTTT	1500
Qy	1501	TCTCATTCGAAG 1512	
Db	1501	TCTCATTCGAAG 1512	

RESULT 9
ID AD242700
AD242700 standard; cDNA, 1512 BP.

AC	AD242700;	
DT	20-NOV-2003 (first entry)	
DE	Novel human secreted and transmembrane protein PRO615 cDNA.	
KW	Human; secreted and transmembrane protein; PRO; gene; ss; tissue typing;	
KW	chromosome identification; vaccine; cancer; retinal disorder;	
KW	sports-related joint disorder; osteoarthritis; rheumatoid arthritis;	
KW	wound healing; obesity; diabetes; hearing loss;	
KW	cardiac insufficiency disorder; kidney disorder; nervous system disorder;	
KW	haemoglobin associated disorder.	
OS	Homo sapiens.	
FN	US2003050241-A1.	
PD	13-MAR-2003.	
PF	16-OCT-2001; 2001US-00978564.	
PR	17-OCT-1997; 97US-0062250P.	
PR	03-NOV-1997; 97US-0064249P.	
PR	13-NOV-1997; 97US-0065311P.	
PR	21-NOV-1997; 97US-0066364P.	
PR	10-MAR-1998; 98US-0077450P.	
PR	11-MAR-1998; 98US-0077632P.	
PR	11-MAR-1998; 98US-0077645P.	
PR	11-MAR-1998; 98US-0077645P.	
PR	12-MAR-1998; 98US-0077791P.	

Db 661 AACAGCACCCCTTCACCCAGAACGCGAGACCAACGAGGAGCTACACGCGCCCTCTGT 720
 QY 721 ACTGATGAGGCGGTAGAGCTGGGAGAGGAGAGAGGCGCCCTCCCTGAGACT 780
 Db 721 ACTGATGAGGCGGTAGAGCTGGGAGAGGAGAGAGGCGCCCTCCCTGAGACT 780
 QY 781 TTCCATCAGGCTCTCTGAGACCTGCGACGCGCTCTCTTCACTGCTGCTGAGC 840
 Db 781 TTCCATCAGGCTCTCTGAGACCTGCGACGCGCTCTCTTCACTGCTGCTGAGC 840
 QY 841 TGACACAGAGCTAGAGAGCTCATAGCTTGGCGGGGCTGGCAAGGCCACCCCAAGT 900
 Db 841 TGACACAGAGCTAGAGAGCTCATAGCTTGGCGGGGCTGGCAAGGCCACCCCAAGT 900
 QY 901 CCTGAGCCCAAGAGGCTTCACTAGAGCGCTCACTCTCTGAGGAGCACTTTAGAAAGGT 960
 Db 901 CCTGAGCCCAAGAGGCTTCACTAGAGCGCTCACTCTCTGAGGAGCACTTTAGAAAGGT 960
 QY 961 TTTTAGCTAGTGTCTTCTGCTTTTATAGACTCAGCCCGCTGAGTGGCTAGAG 1020
 Db 961 TTTTAGCTAGTGTCTTCTGCTTTTATAGACTCAGCCCGCTGAGTGGCTAGAG 1020
 QY 1021 CCAGAGAGTGCCTCATGCTCTACTGACAAAGTCTCAGCTTCCCGCGAGCGGCTCAGGC 1080
 Db 1021 CCAGAGAGTGCCTCATGCTCTACTGACAAAGTCTCAGCTTCCCGCGAGCGGCTCAGGC 1080
 QY 1081 CGTGGAGCGGCTTATCTGCTCTCTGCTGCAAGACTCGTGGGAGCCATCACACCTGC 1140
 Db 1081 CGTGGAGCGGCTTATCTGCTCTCTGCTGCAAGACTCGTGGGAGCCATCACACCTGC 1140
 QY 1141 CCTGAGCGAGGAGCGGAGCCAGGCTCTGCTCTGCTCACTCAGGCTTGGCTTCCCTGCTGC 1200
 Db 1141 CCTGAGCGAGGAGCGGAGCCAGGCTCTGCTCTGCTCACTCAGGCTTGGCTTCCCTGCTGC 1200
 QY 1201 CCATGCTGATGATCTGCGGAGCCACCACTCTGCGGAGTGGCTGAGCTGCTCCG 1260
 Db 1201 CCATGCTGATGATCTGCGGAGCCACCACTCTGCGGAGTGGCTGAGCTGCTCCG 1260
 QY 1261 TGGTGTGAGGCGGAGGCTGCTGCTCACTGAGCACTTCTGCTGCTCCACCCCTGCGAGCA 1320
 Db 1261 TGGTGTGAGGCGGAGGCTGCTGCTCACTGAGCACTTCTGCTGCTCCACCCCTGCGAGCA 1320
 QY 1321 GGGAGAGGCTTGGCTGCTGCAACACCCAGCTTATGTAATTTGAGAGTTGACTTAG 1380
 Db 1321 GGGAGAGGCTTGGCTGCTGCAACACCCAGCTTATGTAATTTGAGAGTTGACTTAG 1380
 QY 1381 GAAAGCTTGGGAGAGGCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440
 Db 1381 GAAAGCTTGGGAGAGGCGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440
 QY 1441 TATATAATCGTGGGAGAGTCCCGGCTGAGATGCTGTTGAGAGAGGAATAATGTTT 1500
 Db 1441 TATATAATCGTGGGAGAGTCCCGGCTGAGATGCTGTTGAGAGAGGAATAATGTTT 1500
 QY 1501 TCTCATTCGAAG 1512
 Db 1501 TCTCATTCGAAG 1512

KM Krabbe's disease; Metachromatic leukodystrophy; Fabry's disease;
 KM Dejerine-Sottas syndrome; chromosome mapping; gene mapping; gene therapy;
 KM Gene; ss.
 OS Homo sapiens.
 PN US2003050240-A1.
 PD 13-MAR-2003.
 XX 16-OCT-2001; 2001US-00978403.
 XX 17-OCT-1997; 97US-0062250P.
 PR 03-NOV-1997; 97US-0064249P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 20-MAR-1998; 98US-0078886P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079656P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 31-MAR-1998; 98US-0080105P.
 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080165P.
 PR 31-MAR-1998; 98US-0080194P.
 PR 01-APR-1998; 98US-0080327P.
 PR 01-APR-1998; 98US-0080328P.
 PR 01-APR-1998; 98US-0080333P.
 PR 01-APR-1998; 98US-0080344P.
 PR 08-APR-1998; 98US-0081049P.
 PR 08-APR-1998; 98US-0081070P.
 PR 08-APR-1998; 98US-0081071P.
 PR 08-APR-1998; 98US-0081195P.
 PR 09-APR-1998; 98US-0081203P.
 PR 09-APR-1998; 98US-0081229P.
 PR 15-APR-1998; 98US-0081817P.
 PR 15-APR-1998; 98US-0081819P.
 PR 15-APR-1998; 98US-0081838P.
 PR 15-APR-1998; 98US-0081952P.
 PR 15-APR-1998; 98US-0081955P.
 PR 21-APR-1998; 98US-0082569P.
 PR 21-APR-1998; 98US-0082568P.
 PR 22-APR-1998; 98US-0082700P.
 PR 22-APR-1998; 98US-0082704P.
 PR 22-APR-1998; 98US-0083797P.
 PR 22-APR-1998; 98US-0083804P.
 PR 23-APR-1998; 98US-0083796P.
 PR 27-APR-1998; 98US-0083336P.
 PR 28-APR-1998; 98US-0083322P.
 PR 29-APR-1998; 98US-0083392P.
 PR 29-APR-1998; 98US-0083495P.
 PR 29-APR-1998; 98US-0083496P.
 PR 29-APR-1998; 98US-0083499P.
 PR 29-APR-1998; 98US-0083500P.
 PR 29-APR-1998; 98US-0083545P.
 PR 29-APR-1998; 98US-0083554P.
 PR 29-APR-1998; 98US-0083558P.
 PR 29-APR-1998; 98US-0083559P.
 PR 30-APR-1998; 98US-0083742P.

RESULT 10
 ACD29741
 ID ACD29741 standard; cDNA; 1512 BP.
 XX ACD29741;
 AC
 DT 08-SEP-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO615 cDNA.
 XX Human; secreted and transmembrane protein; PRO; cell death; neuropathy;
 KM peripheral neuropathy; diabetic peripheral neuropathy;
 KM AIDS-associated neuropathy; Charcot-Marie-Tooth disease;
 KM Refsum's disease; Abetalipoproteinemia; Tangier disease;


```

Db      361 TGGTCATTGGTGAACCTGCTCTTCTCAGCTCTCTGACCTTCTCTGGGTTTGTGTTCT 420
Qy      421 GCTTCTCACCACCAACAGTGGGAGTCAACACCCGAAAGACGTGTGGGGCCGACT 480
Db      421 GCTTCTCACCACCAACAGTGGGAGTCAACACCCGAAAGACGTGTGGGGCCGACT 480
Qy      481 CTGTGAAGGAGAGCATCATCTTCAAGCTTCTTTCATCTTCTCTGGGGGTGTGGGCT 540
Db      481 CTGTGAAGGAGAGCATCATCTTCAAGCTTCTTTCATCTTCTCTGGGGGTGTGGGCT 540
Qy      541 CCTGTGGCTTACCAAGCTTACCAAGCTTGGGCTGGAACGATTCATCCAGAAATTACGTTGACC 600
Db      541 CCTGTGGCTTACCAAGCTTACCAAGCTTGGGCTGGAACGATTCATCCAGAAATTACGTTGACC 600
Qy      601 CCACCTCCGGAACCCCAACACTGCTAGGCTCTTACCAGGTTGATGTCGAGCAATAC 660
Db      601 CCACCTCCGGAACCCCAACACTGCTAGGCTCTTACCAGGTTGATGTCGAGCAATAC 660
Qy      661 AACAGCCACCTTTCACCCAGAACGCGGAGACACCGAGGGCTTACCAAGCCGCTGTGT 720
Db      661 AACAGCCACCTTTCACCCAGAACGCGGAGACACCGAGGGCTTACCAAGCCGCTGTGT 720
Qy      721 ACTGAGTGGGGGTGTAAGGTGGGAAGGGGGAAGAGGGGCTCCCTCTGCGCTGGAAT 780
Db      721 ACTGAGTGGGGGTGTAAGGTGGGAAGGGGGAAGAGGGGCTCCCTCTGCGCTGGAAT 780
Qy      781 TTCCCATCAGCTCTCTGGAACCTGCAAGCCCTCTCTTTCATCTTTCATCTCTGTGACAG 840
Db      781 TTCCCATCAGCTCTCTGGAACCTGCAAGCCCTCTCTTTCATCTTTCATCTCTGTGACAG 840
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Qy      901 CCGTGGCCAGAGAGGCTTCAAGTACGCGCTCACTCTCTCAAGGACCTTTTGAAGAGGT 960
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Qy      1021 CCAAGCAAGTGCCTACTGACTACTGACAAGTGCCTCAAGCTTCCCGGCGCGGAGTCAAG 1080
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Qy      1081 CGTGGAGCCGCTAATTAATCTGCGTCTCTGCAAAAGACTGTGGGGCCATCACACTGC 1140
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Qy      1201 CCACTGCTGATGATCTGAGGGGACCAACCCCTGTGGGGGAGCTCTGCTGCCG 1260
Db      1201 CCACTGCTGATGATCTGAGGGGACCAACCCCTGTGGGGGAGCTCTGCTGCCG 1260
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Qy      1321 GGGAGAGGCTTGTGCTGACAAACCCAGCTTATATGTAATATCTGAGTGTACTTGA 1380
Db      1321 GGGAGAGGCTTGTGCTGACAAACCCAGCTTATATGTAATATCTGAGTGTACTTGA 1380
Qy      1381 GAAGCCCTGGGAGAGGAGGAGGCTGCTCCATGCTCTGAGTGTAT 1440
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Qy      1441 TATATAATCGTGGGAGATGCCGCGCTGGGATGCTGTTTGAAGACGAAATGTTT 1500
Db      1441 TATATAATCGTGGGAGATGCCGCGCTGGGATGCTGTTTGAAGACGAAATGTTT 1500

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Qy      1501 TCTCATTCGAAG 1512
Db      1501 TCTCATTCGAAG 1512

RESULT 11
ID ADAL2361 standard; cDNA; 1512 BP.
AC ADAL2361;
DT 06-NOV-2003 (first entry)
DE Human cDNA encoding secreted/transmembrane polypeptide PRO615.
XX es; gene; inflammatory disease; organ failure; atherosclerosis;
XX cardiac injury; infertility; birth defect; premature aging; AIDS; cancer;
XX diabetic complication; tissue typing; human.
OS Homo sapiens.
PN US2003055216-A1.
PD 20-MAR-2003.
XX
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D	541	CCCTGGCCTTACAGGCGCTACAAAGGCTGGCGTGAAGCATTCATCAGAAATTACGTGAC	600
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Dd		1201	CCACTGTGTATGATGTCCTGGAGAGCCACCACCTCTGTGCGGCTCTGGGCTGCTCCG	1260
OY		1261	TGAGTGAAGGAGCGGGGTGGTGTCTATGGACAATTCTCTTTGGTCCCACCCCTGGACGA	1320
Dd		1261	TGGTGTGAGGGCGGGGTGGTGTCTATGGACAATTCTCTTTGGTCCCACCCCTGGACGA	1320
OY		1321	GGAAAGGGCTTTGGCTCACCAACCCAGCTTTATGTAAATTTCTGAGTTGTTACTTAG	1380
Dd		1321	GGAAGAGGCTTTGGCTCACCAACCCAGCTTTATGTAAATTTCTGAGTTGTTACTTAG	1380
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DT	27-AUG-2003 (first entry)			
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XX				
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KM	tumour growth; retinal disorder; injury; sight loss;			
KM	retinitis pigmentosa; age-related macular degeneration;			
KM	sport-related joint problem; articular cartilage defect; osteoarthritis;			
KM	rheumatoid arthritis; wound healing; obesity; diabetes; insulinemia;			
KM	kidney disorder; mesangial cell function; Berger disease; nephropathy;			
KM	celiac disease; dermatitis; Crohn disease; neuropathy;			
KM	diabetic peripheral neuropathy; peripheral neuropathy;			
KM	reduced motility of the gastrointestinal tract;			
KM	atrophy of the urinary bladder; post polio syndrome; Krabbe's disease;			
KM	Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease;			
KM	Refsum's disease; gene; ss.			
OS	Homo sapiens.			
XX				
PN	US2003049633-A1.			
PD				
XX	13-MAR-2003.			
PF				
XX	16-OCT-2001; 2001US-00978585.			
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XX
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PA (GETH ) GENENTECH INC.
XX

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[illegible]

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XX Human PRO polynucleotide sequence #36.
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XX Human; PRO polypeptide; secreted protein; transmembrane protein;
KW cell death; neuropathy; neuropathy related disease;
KW Charcot-Marie-Tooth disorder; Refsum's disease; Krabbe's disease;
KW Chromosome mapping; gene mapping; genetic disorder; septic shock;
KW antibacterial; immunosuppressive; neuroprotective; gene; ss.
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PR 10-MAR-1999; 99WO-US005190.
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 PR 29-JUN-2001; 2001MO-US021066.
 PR 09-JUL-2001; 2001MO-US021735.
 PR 30-JUL-2001; 2001US-00918585.
 PA (GENE) GENENTECH INC.
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL,
 PI Ferrara N, Filyarov E, Fong S, Gao W, Gerber H, Gerritsen ME,
 PI Goodard A, Godowski PJ, Grimaldi JC, Gueney AU, Hillan KU,
 PI Kijavini J, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL,
 PI Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI: 2003-755118/77.
 DR P-PSDB; ADB76384.
 XX
 PT New PRO polypeptides useful for treating peripheral neuropathy,
 PT neuropathies associated with systemic disease such as post-polio syndrome
 PT or AIDS-associated syndrome.
 PT
 PS Claim 2; Fig 60; 425bp; English.
 XX
 CC The present invention relates to the isolation of novel human PRO
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO
 CC polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for linking
 CC bioactive molecules to cells expressing PRO polypeptides, for modulating
 CC biological activities of cells expressing PRO polypeptides, and for
 CC identifying agonists or antagonists. The bioactive molecule maybe a
 CC toxin, radiolabel or antibody, and cause cell death. The PRO polypeptides
 CC are useful for treating neuropathy and neuropathy related diseases such
 CC as Charcot-Marie-Tooth disorder, Reiter's disease, and Krabbe's disease.
 CC The polynucleotide sequences encoding PRO polypeptides are useful as
 CC hybridisation probes, in chromosome and gene mapping, in the generation

Query March 100.0%; Score 1512; DB 9; Length 1512;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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XX AC ADCA3809;
XX DT 18-DEC-2003 (first entry)
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XX Human; ss; gene; secreted protein; transmembrane protein; PRO;
XX cytosolic; ophthalmological; antiarthritic; osteopathic; antirheumatic;
XX vulnerability; auditory; tumour growth; retinal disorder;
KM sports-related joint problem; articular cartilage defects;
KM osteoarthritis; rheumatoid arthritis; wound healing; hearing loss.
XX Homo sapiens.
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XX PF 17-OCT-1997; 97US-0062250P.
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GenCore version 5.1.6
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Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 Wood, W.I., Goddard, A., Gurney, A., Yuan, J., Baker, K.P. and Chen, J.
Human synapocogrylin-like protein and nucleic acids encoding the same
Patent: EP 1241184-A 161 18-SEP-2002;
JOURNAL

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Genentech, Inc. (US)
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TITLE	The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins				
JOURNAL	A Bioinformatics Assessment				
PUBMED	Genome Res. 13 (10), 2265-2270 (2003)				
REFERENCE	12975309				
AUTHORS	2 (bases 1 to 1512)				
	Clark,H.F.				

AUTHORS Haderlach, T., Schoch, C., Kestn, W., Kohlmann, A., Schnittger, S., Dugas, M., Eilers, R., Bross, B. and Mergenthaler, S.
TITLE Novel genetic markers for leukemias
JOURNAL Patent: WO 03039443-A 2018 15-MAY-2003;
Dutch: WO 2018/039443-A1 2018 05-15
Deutsches Patent- und Markenamt (DPMA)

Häferlach T.; Schoch C., Kern M., Kohlmann A., Schnittger S., Dugas M., Eils R., Broer B. and Bergenthaler S.
Novel genetic markers for leukemias
Patent: WO 0309443-A 2018-15-MAY-2003;
Deutsches Krebsforschungszentrum (DB);
Ludwig-Maximilians-Universität München (DE);
PD Dr. Dr. (DE); Schoch Claudia (DE); Kern, Wolfgang (DE)

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ORIGIN

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Matches 1484;	Conservative	0;	Mismatches 4;	Indels 0;
				Gaps 0;

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Dp	121	TGTGCTTGTGTCTTCGGCTTGATCGTGTTCTCTCGATCTTAAGTGTAGAGGGCTTACAGCAATG	180
QY	202	CCGACGAGTCTTAAGCAGATGTACTCGTGTTCAACCGCAAGAGATGCTGCGCGCTATG	261
Dp	181	CCGACGAGTCTTAAGCAGATGTACTCGTGTTCAACCGCAAGAGATGCTGCGCGCTATG	240
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Dp	421	CAGTCACTCAACCCGAGAGAGATGTGTGTGTGTGGGGCCGACTCTGTAGAGGCAACCATCACT	480
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Dp	481	TCACTCTCTTTTCAATCTTCTCCGTGGGGGTGTCTGAGCTGCGCTTACCAAGCGCTACA	540
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ACCESSION  AJ002308
VERSION     AJ002308.1  GI:2959871
KEYWORDS   synaptogyrin 2.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1
Kedra, D., Pan, H. Q., Seroussi, E., Fransson, I., Guilbaud, C.,
Collins, J. E., Dunham, I., Blennow, E., Roe, B. A., Piehl, F. and
Dunham, J. P.
Characterization of the human synaptogyrin gene family
Unpublished
2 (bases 1 to 1491)
Kedra, D.
Direct Submission
Submitted (29-OCT-1997) Kedra D., Dept. of Molecular Medicine,
Clinical Genetics Unit, Karolinska Hospital, CMM building L-8,,
S-17176 Stockholm, SWEDEN
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FEATURES
source

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VERSION      AC111152.2 GI:21747636
KEYWORDS     HTG.
SOURCE      Homo sapiens (human)
ORGANISM     Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE    Birren,B., Nusbaum,C. and Lander,E.
TITLE        Homo sapiens chromosome 15, clone CTD-2022H16
JOURNAL      Unpublished
AUTHORS      2 (bases 1 to 80119)
JOURNAL      Birren,B., Linton,L., Nusbaum,C., Lander,E., All,A., Allen,N.,
AUTHORS      Anderson,S., Barina,N., Bastien,V., Boguslavsky,L., Boukhalter,B.,
JOURNAL      Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B.,
AUTHORS      Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A.,
JOURNAL      Cooke,E., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
AUTHORS      Ferrelia,P., Fitzhugh,W., Gage,D., Galagan,J., Gadyana,S.,
JOURNAL      Ginde,S., Gold,S., Goyette,M., Graham,L., Grand-Pierre,N.,
AUTHORS      Hagos,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
JOURNAL      Kamat,A., Karatas,A., Kelle,C., Lacroque,K., Lamazares,R.,
AUTHORS      Landers,T., Lehoczy,J., Levine,R., Liu,G., Maclean,C.,
JOURNAL      Macdonald,P., Major,J., Marquis,N., Matthews,C., McCarthy,M.,
AUTHORS      McEwan,P., McKernan,K., Meldrim,J., Menes,L., Mihova,T.,
JOURNAL      Mlenga,V., Murphy,T., Naylor,U., Nguyen,C., Nicol,R., Norbu,C.,
AUTHORS      Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,U.,
JOURNAL      Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C.,
AUTHORS      Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J.,
JOURNAL      Rosetti,M., Roy,A., Santos,R., Schauer,S., Schupback,R., Seaman,S.,
AUTHORS      Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
JOURNAL      Strasse,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
AUTHORS      Topham,K., Travers,M., Travers,N., Triggilio,J., Vassiliev,H.,
JOURNAL      Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G.,
AUTHORS      Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
TITLE        Submitted (18-FEB-2002) Whitehead Institute/MIT Center for Genome
JOURNAL      Research, 320 Charles Street, Cambridge, MA 02141, USA
AUTHORS      3 (bases 1 to 80119)
REFERENCE    Birren,B., Nusbaum,C., Lander,E., All,A., Allen,N., Anderson,S.,
AUTHORS      Barina,N., Bastien,V., Bloom,T., Boguslavsky,L., Boukhalter,B.,
JOURNAL      Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Collymore,A.,
AUTHORS      Cook,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S.,
JOURNAL      Faro,S., Ferrelia,P., Fitzgerald,M., Gage,D., Galagan,J.,
AUTHORS      Gadyana,S., Gold,S., Graham,L., Grand-Pierre,N., Hagos,B.,
JOURNAL      Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A.,
AUTHORS      Karatas,A., Kelle,C., Landers,T., Levine,R., Lindblad-Toh,K.,
JOURNAL      Liu,G., Maclean,C., Macdonald,P., Major,J., Matthews,C.,
AUTHORS      McCarthy,M., Meldrim,J., Menes,L., Mihova,T., Mlenga,V.,
JOURNAL      Murphy,T., Naylor,U., Nguyen,C., Nicol,R., Norbu,C., Norman,C.H.,
AUTHORS      O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,U., Peterson,K.,
JOURNAL      Phunkhang,P., Pierre,N., Raymond,C., Retta,R., Rise,C., Rogov,P.,
AUTHORS      Roman,J., Roy,A., Schauer,S., Schupback,R., Seaman,S., Severy,P.,
JOURNAL      Smith,C., Spencer,B., Stange-Thomann,N., Stojanovic,N., Talamas,J.,

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JOURNAL
Submitted (14-JUL-2002) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Jul 14, 2002 this sequence version replaced gi:18699917.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
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Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIRB
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
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Project Information
Center project name: 2022_H_16

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unnumbered pieces.
ACCESSION AC119799
VERSION   AC119799.14 GI:33504602
KEYWORDS  HTG; HTGS_PHASE1; HTGS_DRAFT.
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ORGANISM  Pan troglodytes
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1 (bases 1 to 223021)
Deschamps, S., Gao, N., Hu, X., Eichler, E. and Roe, B.A.
Pan troglodytes BAC Clone ch251-9k16
Unpublished
2 (bases 1 to 223021)
Gao, N., Hu, X., Eichler, E. and Roe, B.A.
Direct Submission
Submitted (02-MAY-2002) Department of Chemistry and Biochemistry,
The University of Oklahoma, 620 Parrington Oval, Room 208, Norman,
OK 73019, USA
3 (bases 1 to 223021)
Deschamps, S., Gao, N., Hu, X., Eichler, E. and Roe, B.A.
Direct Submission
Submitted (15-AUG-2003) Department of Chemistry and Biochemistry,
The University of Oklahoma, 620 Parrington Oval, Room 208, Norman,
OK 73019, USA
OK Aug 8, 2003 this sequence version replaced gi:3336715.

REFERENCE
AUTHORS   Deschamps, S., Gao, N., Hu, X., Eichler, E. and Roe, B.A.
TITLE     Genome Center
JOURNAL   Center: Department Of Chemistry And Biochemistry
          The University of Oklahoma
          Center code:UOKNOR
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* NOTE: This is a 'working draft' sequence. It currently
* consists of 5 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will

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* be preserved.
* 1 4442: contig of 4442 bp in length
* 4443 4542: gap of unknown length
* 4543 22859: contig of 18917 bp in length
* 22860 22959: gap of unknown length
* 22960 54338: contig of 31379 bp in length
* 54339 54439: gap of unknown length
* 54439 125727: contig of 71289 bp in length
* 125728 125827: gap of unknown length
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Matches 1311; Conservative 0; Mismatches 51; Indels 7; Gaps 2;

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VERSION AC135994.6 GI:27369446
KEYWORDS HTG; HTGS PHASE1; HTGS_FUL1TOP; HTGS_CANCELLED.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
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Britten,B., Nusbaum,C. and Lander,E.
Homo sapiens chromosome 15, clone RP13-598G7
Unpublished
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Britten,B., Nusbaum,C., Lander,E., All,A., Allen,N., Anderson,S.,
Barra,N., Bastien,V., Bloom,T., Boguslavsky,L., Boukhgalter,B.,
Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Collymore,A.,
Cook,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S.,
Faro,S., Ferreira,P., Fitzgerald,M., Gage,D., Galagan,J.,
Gardyna,S., Gord,S., Graham,L., Grand-Pierre,N., Hafez,N.,
Hagoe,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R.,
Lindblad-Toh,K., Liu,G., Maclean,C., MacDonald,P., Major,J.,
Mathews,C., McCarthy,M., Meldrum,J., Menus,L., Mihova,T.,
Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C.,
Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J.,
Peterson,K., Phunkhang,P., Pierre,N., Raymond,C., Retta,R.,

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Rise,C., Rogov,P., Roman,J., Roy,A., Schauer,S., Schupack,R.,
Seaman,S., Severy,P., Smith,C., Spencer,B., Strange-Thomann,N.,
Stojanovic,N., Talamas,J., Testaye,S., Theodore,J., Topham,K.,
Travers,M., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X.,
Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (26-OCT-2002) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 163776)
Britten,B., Nusbaum,C., Lander,E., All,A., Allen,N., Anderson,S.,
Barra,N., Bastien,V., Bloom,T., Boguslavsky,L., Boukhgalter,B.,
Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Collymore,A.,
Cook,A., Cooke,P., Dearellano,K., Dewar,K., Diaz,J.S., Dodge,S.,
Faro,S., Ferreira,P., Fitzgerald,M., Gage,D., Galagan,J.,
Gardyna,S., Gord,S., Graham,L., Grand-Pierre,N., Hafez,N.,
Hagoe,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R.,
Lindblad-Toh,K., Liu,G., Maclean,C., MacDonald,P., Major,J.,
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Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C.,
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Rise,C., Rogov,P., Roman,J., Roy,A., Schauer,S., Schupack,R.,
Seaman,S., Severy,P., Smith,C., Spencer,B., Strange-Thomann,N.,
Stojanovic,N., Talamas,J., Testaye,S., Theodore,J., Topham,K.,
Travers,M., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X.,
Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (27-MAR-2003) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Dec 24, 2002 this sequence version replaced gi:26190543.
All repeats were identified using RepeatMasker:
Smith,A.F.A. & Green,P. (1996-1997)
http://ftp.genome.washington.edu/SW/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seg.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: 128453
Center clone name: 598_G_7
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* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 10971: contig of 10971 bp in length
* 10972 11071: gap of 100 bp
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 Matches 1320; Conservative 0; Mismatches 141; Indels 28; Gaps 8;

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 ORGANISM
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 Unclassified.
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 AUTHORS Rosen,C.A., Ruben,S.M., Olsen,H.S. and Ebner,R.
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 JOURNAL Patent: US 6342581-A 83 29-JAN-2002;
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 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 REFERENCE 1 (bases 1 to 1977)
 AUTHORS Fischer, C.L., Rosen, C.A., Soppet, D.R., Ruben, S.M., Kyaw, H., Li, Y., Zeng, Z., Lafleur, D.W., Moore, P.A., Shi, Y., Ols, H.S., Ebner, R. and Brewer, J.A.
 TITLE 123 human secreted proteins
 JOURNAL Patent: JP 2002513295-A 82 08-MAY-2002;
 COMMENT HUMAN GENOME SCIENCES INC
 OS Homo sapiens (human)
 PN JP 2002513295-A/82
 PD 08-MAY-2002
 PR 07-JUL-1998 JP 199808174
 PR 08-JUL-1997 US 60/051926,08-JUL-1997 US 60/051929 PR
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 08-JUL-1997 US 60/052795,08-JUL-1997 US 60/052723 PR
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 Matches 1103; Conservative 1; Mismatches 5; Indels 29; Gaps 3;
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 DB 805 GTTCTCTTCTACAGCTCTCTGAGACTTCTGTGAGTTGTGTTGTTCTGCTTCTACCAA 864
 QY 434 CAGTGGGAGTACCAACCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 493
 DB 865 CAGTGGGAGTACCAACCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 923
 QY 494 CATCACTTACAGCTCTTTTCATCTCTCTGAGGAGTGTGAGGCTCTGAGGAGGAGGAGG 553
 DB 924 CATCACTTACAGCTCTTTTCATCTCTCTGAGGAGTGTGAGGCTCTGAGGAGGAGGAGG 956
 QY 554 GCGCTACAAAGGCTGCGGTGAGAGCTTATCCAGAAATTAGCTGACCCACTCCGAGACC 613
 DB 957 GCGCTACAAAGGCTGCGGTGAGAGCTTATCCAGAAATTAGCTGACCCACTCCGAGACC 1016

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QY 614 CAACACTGCTAGACCCCTCCTACCCAGATGATCTGAGCAACTACCAACGACCCCTT 673
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QY 674 CACCCAGAACGCGAGAGACCAACGAGGCTACAGCCGCCCTGTGTACTGATGAGCGGT 733
Db 1077 CACCCAGAACGCGAGAGACCAACGAGGCTACAGCCGCCCTGTGTACTGATGAGCGGT 1136
QY 734 TACCGTGGAGAGGAGGAGACAGAGAGGCGCCCTGCTGCGCTGAGATTTTCCATGACCT 793
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QY 794 CCGTGAAGTCCAGAGCCCTCTCTTTTCACTGTTTCACTGTTGACAGTGAACACAGCTA 853
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RESULT 15
LOCUS HSM804321 3052 bp mRNA linear PRI 10-JUL-2002
DEFINITION Homo sapiens mRNA, cDNA DKFZp666M214 (from clone DKFZp666M214).
ACCESSION AL833010
VERSION AL833010.1 GI:21733599
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

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REFERENCE 1 (bases 1 to 3052)
AUTHORS Ansoorge, W., Mirkner, U., Mewes, H.W., Well, B. and Wiemann, S.
TITLE Direct Submission
JOURNAL Submitted (09-JUL-2002) 1. D-85764 Neuberberg, GERMANY
COMMENT Cloned from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ), Email s.wiemann@dkfz-heidelberg.de;
Sequenced by EMBL (European Molecular Biology Laboratories,
Heidelberg/Germany) within the cDNA sequencing consortium of the
German Genome Project.
This clone (DKFZp666M214) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Neuberberg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de Further
information about the clone and the sequencing project is available
at http://mips.gsf.de/proj/cDNA/.
FEATURES
location/Qualifiers
source 1..3052
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="RZPD:DKFZp666M214"
/db_xref="taxon:9606"
/clone="DKFZp666M214"
/issue_type="stomach"
/clone_lib="666 (synonym: hst02). Vector pSport1; host
DH10B; sites NotI + SalI"
/seq_stages="adult"
3018..3023
ORIGIN
polyA_signal
polyA_site
3036

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Query Match 67.8%; Score 1025.2; DB 9; Length 3052;
Best Local Similarity 92.4%; Pred. No. 5.4e-17;
Matches 1126; Conservative 0; Mismatches 3; Indels 89; Gaps 1;
QY 383 CTCAGCTCTGAGACCTTCTCTGTGTTTGTGTTTCTCTCTCAACCAAGTGGGC 442
Db 1822 CCGAGCTCTGAGACCTTCTCTGTGTTTGTGTTTCTCTCTCAACCAAGTGGGC 1881
QY 443 AGTACCAACCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 502
Db 1882 AGTACCAACCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1941
QY 503 CAGCTTCTTTCATCTTCTCTG----- 526
Db 1942 CAGCTTCTTTCATCTTCTCTGAGTAGATGAGAGAGAGAGAGAGAGAGAGAGAG 2001
QY 527 -----GGGTGTG 533
Db 2002 TGGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2061
QY 534 CTGAGCTCTCTGAGCTTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 593
Db 2062 CTGAGCTCTCTGAGCTTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2121
QY 594 GTTGAACCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 653
Db 2122 GTTGAACCTTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2181
QY 654 AACTACCAACAGCAACCTTACACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 713
Db 2182 AACTACCAACAGCAACCTTACACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2241
QY 714 CCGTGTACTGAGTGGCGGTTAGCGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 773
Db 2242 CCGTGTACTGAGTGGCGGTTAGCGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2301
QY 774 CTGAGCTTTCGACAGAGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 833
Db 2302 CTGAGCTTTCGACAGAGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2361
QY 834 GTGAGCTGAGACACAGGTAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 893
Db 2362 GTGAGCTGAGACACAGGTAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2421

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QY 954 AAAGGTTTTTTAGCTAGTGTTTTTCTCGCTTTTAAATGACCTCAGCCCGCTGCAATGG 1013
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Db 2482 AAAGGTTTTTTAGCTAGTGTTTTTCTCGCTTTTAAATGACCTCAGCCCGCTGCAATGG 2541
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QY 1014 CTAAAGCCAGCAGAGTCCCAATGCTACTGACAAAGTGCCTCAGCTTCCCGCGCCCG 1073
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Db 2542 CTAAAGCCAGCAGAGTCCCAATGCTACTGACAAAGTGCCTCAGCTTCCCGCGCCCG 2601
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QY 1074 GTCAAGCCGTGGAGCCGCTATTATCTGCGTTCTCTGCAAAAGCTGTGGGGCCATCA 1133
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Db 2602 GTCAAGCCGTGGAGCCGCTATTATCTGCGTTCTCTGCAAAAGCTGTGGGGCCATCA 2661
| | | | |
QY 1134 CACCTGCCCTGTGACAGGAGGAGCCGACACAGGCTTTGTCTCCTCAGTCAAGTTGCTTC 1193
| | | | |
Db 2662 CACCTGCCCTGTGACAGGAGGAGCCGACACAGGCTTTGTCTCCTCAGTCAAGTTGCTTC 2721
| | | | |
QY 1194 CCTGTGCCCACTGCTATGATCTGGGGGCCACCAACCCTGTGCGGTGGCTCTGGGCTG 1253
| | | | |
Db 2722 CCTGTGCCCACTGCTATGATCTGGGGGCCACCAACCCTGTGCGGTGGCTCTGGGCTG 2781
| | | | |
QY 1254 CCTGCCGTGTGTGAGGGCGGGGCTGTGCTCATGCACTTCTCTCTGCCACCCCT 1313
| | | | |
Db 2782 CCTGCCGTGTGTGAGGGCGGGGCTGTGCTCATGCACTTCTCTCTGCCACCCCT 2841
| | | | |
QY 1314 GGCAGCAGGGAAGGGCTTTGCTGACAACACCCAGCTTTTATGTAATATTCTGCAATGT 1373
| | | | |
Db 2842 GGCAGCAGGGAAGGGCTTTGCTGACAACACCCAGCTTTTATGTAATATTCTGCAATGT 2901
| | | | |
QY 1374 TACTTAGAGAGCTGGGGAGGGGCAAGGAGTGCCTCCATGCTCCAGACTGTGTGTGCG 1433
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Db 2902 TACTTAGAGAGCTGGGGAGGGGCAAGGAGTGCCTCCATGCTCCAGACTGTGTGTGCG 2961
| | | | |
QY 1434 AGTGATTTATTAATCGTGGGGAGATGCCCGGCTGGGATGCTGTGAGAGCGGAATA 1493
| | | | |
Db 2962 AGTGATTTATTAATCGTGGGGAGATGCCCGGCTGGGATGCTGTGAGAGCGGAATA 3021
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QY 1494 AATGTTTTCTCATTCAAA 1511
| | | | |
Db 3022 AATGTTTTCTCATTCAAA 3039
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Search completed: April 8, 2004, 08:53:45
Job time : 5860 secs


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1  EARLIER APPLICATION NUMBER: 60/055,949
2  EARLIER FILING DATE: 1997-08-18
3  EARLIER APPLICATION NUMBER: 60/055,953
4  EARLIER FILING DATE: 1997-08-18
5  EARLIER APPLICATION NUMBER: 60/055,950
6  EARLIER FILING DATE: 1997-08-18
7  EARLIER APPLICATION NUMBER: 60/055,947
8  EARLIER FILING DATE: 1997-08-18
9  EARLIER APPLICATION NUMBER: 60/055,964
10 EARLIER FILING DATE: 1997-08-18
11 EARLIER APPLICATION NUMBER: 60/056,360
12 EARLIER FILING DATE: 1997-08-18
13 EARLIER APPLICATION NUMBER: 60/055,684
14 EARLIER FILING DATE: 1997-08-18
15 EARLIER APPLICATION NUMBER: 60/055,984
16 EARLIER FILING DATE: 1997-08-18
17 EARLIER APPLICATION NUMBER: 60/055,954
18 EARLIER FILING DATE: 1997-08-18
19 EARLIER APPLICATION NUMBER: 60/058,785
20 EARLIER FILING DATE: 1997-09-12
21 EARLIER APPLICATION NUMBER: 60/058,664
22 EARLIER FILING DATE: 1997-09-12
23 EARLIER APPLICATION NUMBER: 60/058,660
24 EARLIER FILING DATE: 1997-09-12
25 EARLIER APPLICATION NUMBER: 60/058,661
26 EARLIER FILING DATE: 1997-09-12
27 NUMBER OF SEQ ID NOS: 672
28 SOFTWARE: PatentIn Ver. 2.0
29 SEQ ID NO 83
30 LENGTH: 1977
31 TYPE: DNA
32 ORGANISM: Homo sapiens
33 FEATURE:
34 NAME/KEY: SITE
35 LOCATION: (664)
36 OTHER INFORMATION: n equals a,t,g, or c
37 FEATURE:
38 NAME/KEY: SITE
39 LOCATION: (716)
40 OTHER INFORMATION: n equals a,t,g, or c
41 FEATURE:
42 NAME/KEY: SITE
43 LOCATION: (1319)
44 OTHER INFORMATION: n equals a,t,g, or c
45 US-09-227-357-83

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Query Match	68.9 %	Score 1042.2	DB 4	Length 1977
Best Local Similarity	96.9 %	Pred.No. 2.6e-284		
Matches 1103	Conservative 1	Mismatches 5	Indels 29	Gaps 3
QY	374	CCGCTCTTCTCAGCTCTGTGACCTTCTCTGTTTGTTGGTTTCGTCTCTCACCA	433	
Db	805	CGCTCTTCTCAGCTCTGTGACCTTCTCTGTTTGTTGGTTTCGTCTCTCACCA	864	
QY	434	CGAGTGGCAGTCCACCACCCGAGAGAGCTGTGTGTGGGGCCGACTCTGTGAGGGCAGC	493	
Db	865	CCAGTGGCAGTCCACCACCCGAA-GAGCTGTGTGTGGGGCCGACTCTGTGAGGGCAGC	923	
QY	494	CATCACCCTTCAAGTTCTTTTTCATCTTTCTCTGGGGTGTGTGCGCTCCTGACCTACCA	553	
Db	924	CATCACCCTTCAAGTTCTTTTTCATCTTTCTCTG-----	956	
QY	554	GCGCTCAAGAGCTGGGGGTGAGCATTTATCAGATTAAGTTAGTACCCCACTCCGAGCC	613	
Db	957	GCGCTCAAGAGCTGGGGGTGAGCATTTATCAGATTAAGTTAGTACCCCACTCCGAGCC	1011	
QY	614	CAACACTGCTTAGGCTCTCTCACTCCAGGTGATCTGTGAGCAACTACCAAGCCACCTT	673	
Db	1017	CAACACTGCTTAGGCTCTCTCACTCCAGGTGATCTGTGAGCAACTACCAAGCCACCTT	1076	
QY	674	CACCCGAAACGGGAGACCAACCGAGGGCTACCAAGCCGCCCTCTGTGTACTGATGGCGGT	733	
Db	1077	CACCCGAAACGGGAGACCAACCGAGGGCTACCAAGCCGCCCTCTGTGTACTGAGCGCGGT	1138	

QY	724	TAGCGTGGGAAGGGGGAGACAGAGAGAGGCGCTCCCTCGCCCTGGACCTTCCCATCAGCCT	799
Db	1137	TAGCGTGGGAAGGGGGAGACAGAGAGAGGCGCTCCCTCGCCCTGGACCTTCCCATCAGCCT	1196
QY	794	CCTGGAACTGCAGACCCCTCTCTTTTCACTGTTCCATCTGTGTGACGTGACACACAGCTA	853
Db	1197	CCTGGAACTGCAGACCCCTCTCTTTTCACTGTTCCATCTGTGTGACGTGACACACAGCTA	1256
QY	854	AGAGAGCCTCAAGGCTGGCGGGGGGCTGGGAGAGCAACCCCAAGTGCCTGTGCCAGAG	913
Db	1257	AGAGAGCCTCAAGGCTGGCGGGGGGCTGGGAGAGCAACCCCAAGTGCCTGTGCCAGAG	1316
QY	914	GGCTTCAGTCAGCCGCTCACTCCTCCAGAGGACATTTTAGAAAAAGGTTTTTTAGCTAGT	973
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QY	1034	ATGTGCTACTGACAAAGTGCCTCAGCTTCCCCCGGCGCCGGGTGAGGCGCGT	1093
Db	1437	ATGTGCTACTGACAAAGTGCCTCAGCTTCCCCCGGCGCCGGGTGAGGCGCGT	1496
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Db	1557	GCCGAGACAGAGCTTTGTGTGTCCTCACTCAGATTTGCTTCCCTGTGGCCACTGCTGATG	1616
QY	1214	ATCTGGGGGCGCACACCTGTGTGCGGGTGGCTTGTGGGCTGCTCCGTGTGTGAGGGCG	1273
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QY	1454	GGGAGATGCCCGGCTGGATGCTGTTTGGAGACGGATTAATGTTTTCTCATTCAAA	1511
Db	1856	GGGAGATGCCCGGCTGGATGCTGTTTGGAGACGGATTAATGTTTTCTCATTCAAA	1913
RESULT 2			
US-08-700-637-1			
Sequence 1, Application US/08700637			
Patent No. 5854413			
GENERAL INFORMATION:			
APPLICANT: Hawkins, Phillip R.			
APPLICANT: Stuart, Susan G.			
APPLICANT: Murry, Lynn E.			
TITLE OF INVENTION: NOVEL SYNAPTOGRIIN HOMOLOG FROM COLON			
NUMBER OF SEQUENCES: 12			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Incyte Pharmaceuticals, Inc.			
STREET: 3174 Porter Drive			
CITY: Palo Alto			
STATE: CA			
COUNTRY: U.S.			
ZIP: 94304			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Diskette			

RESULT 4
US-09-713-550-135
Sequence 135, Application US/09713550
Patent No. 6617109
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
TREATMENT OF OVARIAN CANCER
FILE REFERENCE: 210121.484C4
CURRENT APPLICATION NUMBER: US/09/713.550
CURRENT FILING DATE: 2000-11-14
NUMBER OF SEQ ID NOS: 205
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 135
LENGTH: 396
TYPE: DNA
ORGANISM: Homo sapien
US-09-713-550-135

Query Match 25.6%; Score 386.4; DB 4; Length 396;
Best Local Similarity 99.7%; Pred. No. 2.5e-81;
Matches 387; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 877 GCTGCGAGAGCCACACCCCAAGTGTGCTGCGCCAGAGGGCTTCAGTCAAGCGCTCACTCC 936
DB 9 GCTGCGAGAGCCACACCCCAAGTGTGCTGCGCCAGAGGGCTTCAGTCAAGCGCTCACTCC 68
QY 937 TCCAGGGCACTTTAGAAAAGGTTTAACTAGTGTTCCTCGCTTTAATGACTC 996
DB 69 TCCAGGGCACTTTAGAAAAGGTTTAACTAGTGTTCCTCGCTTTAATGACTC 128
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QY 1057 GCTTCCCCCGGCGGAGTCAAGCGCTGAGAGCGCTTATATCTGCGTCTCTGCAAG 1116
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QY 1117 ACTCGTGGGGGCGCATCAACCTGCTGTGAGCGGAGCCGAGCCAGGCTTTGTCTCT 1176
DB 249 ACTCGTGGGGGCGCATCAACCTGCTGTGAGCGGAGCCGAGCCAGGCTTTGTCTCT 308
QY 1177 CACTCAGGTTTGTCTTCCCTGTGCTGCTGTATGATCTGGGGGCGCATCAACCTGTGC 1236
DB 309 CACTCAGGTTTGTCTTCCCTGTGCTGCTGTATGATCTGGGGGCGCATCAACCTGTGC 368
QY 1237 CGGTGGGCTCTGGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1264
DB 369 CGGTGGGCTCTGGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 396

RESULT 5
US-08-700-637-11
Sequence 11, Application US/08700637
Patent No. 5854413
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Stuart, Susan G.
APPLICANT: Murty, Lynn E.
TITLE OF INVENTION: NOVEL SYNAPTOGYRIN HOMOLOG FROM COLON
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700.637
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0065 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 296 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: LUNGMOT04
CLONE: 809604
US-08-700-637-11

Query Match 18.3%; Score 276.8; DB 2; Length 296;
Best Local Similarity 97.3%; Pred. No. 9.3e-56;
Matches 289; Conservative 0; Mismatches 7; Indels 1; Gaps 1;

QY 28 GCGGAGAGGCGGCGGCGGAGCATGAGAGGCGGCGCTACGCGCGGCGCAAGGCGGCG 87
DB 1 GCGGAGAGGCGGCGGCGGAGCATGAGAGGCGGCGCTACGCGCGGCGCAAGGCGGCG 60
QY 88 GCTCTTTCAGCTTGGGCGGCTTCTCTGAGCGAGCGGAGGTGTGTGCGCGCGCGTGTGT 147
DB 61 GCTCTTTCAGCTTGGGCGGCTTCTCTGAGCGAGCGGAGGTGTGTGCGCGCGCGTGTGT 119
QY 148 TGGTCTTGGCTTGAATCGTGTCTCTGATCATATGATGAGGCTACAGCAATGCGCAAG 207
DB 120 TGGTCTTGGCTTGAATCGTGTCTCTGATCATATGATGAGGCTACAGCAATGCGCAAG 179
QY 208 AGCTAAGAGATGATAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 267
DB 180 AGCTAAGAGATGATAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 239
QY 268 CCATCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 324
DB 240 CCATCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 296

RESULT 6
US-08-700-637-7
Sequence 7, Application US/08700637
Patent No. 5854413
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Stuart, Susan G.
APPLICANT: Murty, Lynn E.
TITLE OF INVENTION: NOVEL SYNAPTOGYRIN HOMOLOG FROM COLON
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/700,637
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0065 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 265 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: COLN0T01
CLONE: 608493
US-08-700-637-7

Query Match 17.3%; Score 261; DB 2; Length 265;
Best Local Similarity 98.5%; Pred. No. 4.4e-52;
Matches 261; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 57 AGCGGGGCTACGCGCGCGCAAGGCGGGGCTCTTGCAGCTTGCGGCTTCTTCAAG 116
DB 1 AGCGGGGCTACGCGCGCGCAAGGCGGGGCTCTTGCAGCTTGCGGCTTCTTCAAG 60
QY 117 GACCGCGAGGTGGTGGCGCGCGCGCTTGTGTTGCTTATGCTGTCTTCTTCTG 176
DB 61 GACCGCGAGGTGGTGGCGCGCGCGCTTGTGTTGCTTATGCTGTCTTCTTCTG 120
QY 177 ATCTATGCTGAGGCTACAGCAATGCCCAAGTCTAAGCAATGACTGCTGTTCAAC 236
DB 121 ATCTATGCTGAGGCTACAGCAATGCCCAAGTCTAAGCAATGACTGCTGTTCAAC 180
QY 237 CGCAAGAGAGTCCCTGCGCGCTATGGAGTGCATGGGGTGTGCTTCTTCTGCTTCG 296
DB 181 CGCAAGAGAGTCCCTGCGCGCTATGGAGTGCATGGGGTGTGCTTCTTCTGCTTCG 240
QY 297 GCCTTCTTCTGCTTCTGCTGCGAGCGCT 321
DB 241 GCCTTCTTCTGCTTCTGCTGCGAGCGCT 265

RESULT 7
US-08-700-637-6
Sequence 6, Application US/08700637
Patent No. 5854413
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Murry, Susan G.
TITLE OF INVENTION: NOVEL SYNAPTOGYRIN HOMOLOG FROM COLON
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,637
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.

REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0065 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 272 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: MMLR2DT01
CLONE: 476266
US-08-700-637-6

Query Match 17.3%; Score 261; DB 2; Length 272;
Best Local Similarity 96.0%; Pred. No. 4.5e-52;
Matches 261; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 36 GCGCGGACGCGGCAATGAGAGCGGGGCTTACGGGCGGCAAGGCGGGGCTTCTTC 95
DB 1 GCGCGGACGCGGCAATGAGAGCGGGGCTTACGGGCGGCAAGGCGGGGCTTCTTC 60
QY 96 GACCTGCGGCGCTTCTCTGACGACCGCAGAGTGTGCGGCGCGCTTGTGTTTC 155
DB 61 GACCTGCGGCGCTTCTCTGACGACCGCAGAGTGTGCGGCGCGCTTGTGTTTC 120
QY 156 GCTTGTATCGTGTCTCTCTGATCTATGATGAGGCTTACAGCAATGCCCAAGTCTTAAG 215
DB 121 GCTTGTATCGTGTCTCTCTGATCTATGATGAGGCTTACAGCAATGCCCAAGTCTTAAG 180
QY 216 CAGATGTAAGTCCGTTTCAACCGCAAGAGATGCTTCCGCTATGAGCAATGTCATGCGG 275
DB 181 CAGATGTAAGTCCGTTTCAACCGCAAGAGATGCTTCCGCTATGAGCAATGTCATGCGG 240
QY 276 GTGCTGCGCTTCTTCTGCGCTTCTTCTT 307
DB 241 GTGCTGCGCTTCTTCTGCGCTTCTTCTT 272

RESULT 8
US-08-700-637-5
Sequence 5, Application US/08700637
Patent No. 5854413
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Murry, Susan G.
TITLE OF INVENTION: NOVEL SYNAPTOGYRIN HOMOLOG FROM COLON
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,637
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0065 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555

TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 232 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: TMR2D701
CLONE: 392250
US-08-700-637-5

Query Match 15.2%; Score 229.4; DB 2; Length 232;
Best Local Similarity 99.1%; Pred. No. 1e-44; 2; Indels 0; Gaps 0;
Matches 230; Conservative 0; Mismatches 2;

QY 72 GCGGCCAAGGCGGCGCTCTTTCGACCTGCGGCGCTTCTTCAAGCAGCGGAGTGTG 131
DB 1 GCGGCCAAGGCGGCGCTCTTTCGACCTGCGGCGCTTCTTCAAGCAGCGGAGTGTG 60
QY 132 GCGGCCGCGCTCTTTCGACCTGCGGCGCTTCTTCAAGCAGCGGAGTGTG 191
DB 61 GCGGCCGCGCTCTTTCGACCTGCGGCGCTTCTTCAAGCAGCGGAGTGTG 120
QY 192 TACAGCAATGCCAGTCTTAAGCAGATGACTGCGTGTTCACCGCAAGAGATGCC 251
DB 121 TACAGCAATGCCAGTCTTAAGCAGATGACTGCGTGTTCACCGCAAGAGATGCC 180
QY 252 TGCCGCTATGCGATGCGCATGCGGCTGCTGCTTCTTCTGCGCTTCTTCT 303
DB 181 TGCCGCTATGCGATGCGCATGCGGCTGCTGCTTCTTCTGCGCTTCTTCT 232

RESULT 9

US-08-700-637-10
Sequence 10, Application US/08700637

PATENT NO. 5854413
GENERAL INFORMATION:
APPLICANT: Hawkins, Phillip R.
APPLICANT: Stuart, Susan G.
APPLICANT: Murry, Lynn E.
TITLE OF INVENTION: NOVEL SYNAPTOGRAIN HOMOLOG FROM COLON
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/700,637
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF-0065 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 230 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

IMMEDIATE SOURCE:
LIBRARY: BRAITUT02
CLONE: 754306
US-08-700-637-10

Query Match 14.5%; Score 219; DB 2; Length 230;
Best Local Similarity 99.6%; Pred. No. 2.8e-42;
Matches 230; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 54 GAGAGCGGGGCTACGAGCGGCGGCGGCGGCGGCTCTTTCGACCTGCGGCGCTTCTG 113
DB 1 GAGAGCGGGGCTACGAGCGGCGGCGGCGGCGGCGGCTCTTTCGACCTGCGGCGCTTCTG 60
QY 114 ACGAGCGCGCAGTGTGTGCGCGCGCGGCGGCGGCTTGTGCTTGTGCTTGTGCTTCTTC 173
DB 61 ACGAGCGCGCAGTGTGTGCGCGCGGCGGCGGCGGCTTGTGCTTGTGCTTGTGCTTCTTC 119
QY 174 TGCATCTATGTGAGGGGTATAGCAATGCCACAGTCTTAAGCAGATGACTGCGTGTTC 233
DB 120 TGCATCTATGTGAGGGGTATAGCAATGCCACAGTCTTAAGCAGATGACTGCGTGTTC 179
QY 234 AACGCAACAGAGATGCTGCGGCTATAGCAGTGCATCGGCGGTGCTGCGC 284
DB 180 AACGCAACAGAGATGCTGCGGCTATAGCAGTGCATCGGCGGTGCTGCGC 230

RESULT 10

US-09-620-312D-317
Sequence 317, Application US/09620312D

PATENT NO. 6569662
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Chen, Rui-hong
APPLICANT: Zhao, Qing A.
APPLICANT: Wehman, Tom
APPLICANT: Xue, Aidong J.
APPLICANT: Yang, Yonglong
APPLICANT: Wang, Jian-Rui
APPLICANT: Zhou, Ping
APPLICANT: Ma, Yunding
APPLICANT: Wang, Danyu
APPLICANT: Wang, Zhilai
APPLICANT: John Tillinghast
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: Polypeptides
FILE REFERENCE: 784CIP2B
CURRENT APPLICATION NUMBER: US/09/620,312D
CURRENT FILING DATE: 2000-07-19
PRIOR APPLICATION NUMBER: 2000-04-25
PRIOR FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 1105
SOFTWARE: pc_Fl_genes Version 1.0
SEQ ID NO 317
LENGTH: 1639
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (93) .. (668)
US-09-620-312D-317

Query Match 14.5%; Score 218.8; DB 4; Length 1639;
Best Local Similarity 64.1%; Pred. No. 5.3e-42;
Matches 364; Conservative 0; Mismatches 197; Indels 7; Gaps 2;

QY 4 ACGCGTGGCGGACGCGT-GGGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 62

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Db      45  ACCGCTCCGCGCACGCTCCGCGGAGGAGCAGCGCGGCTCAGCAGCAGATGAGAGGAGG 104
Qy      63  GCCTAGCGCGCGGCGAAAGCGGCGGCTCTTTCGACCTGCGGCGCTTCTGACGACGCG 122
Db      105  GCGTACGAGACGCGGCGAAAGCGGCGGCGCTTTCGACCTGCGGCGCGGCGG 164
Qy      123  CAGGTGAGCGCGCGCGGCGGCTTTCGACCTGCGGCGCTTTCGACCTGCGGCGG 182
Db      165  CACACCTCTGCGCGGCGGCTTTCGACCTGCGGCGCTTTCGACCTGCGGCGG 224
Qy      183  GGTAGGCGCTACAGCAATGCGCGAGCTTACAGCAATGCGGCTTTCGACCTGCGG 242
Db      225  AACGAGGCGCTACCTCAACAGCGCTTCCGAGGAGGAGGCTTTCGACCTGCGG 284
Qy      243  GAGATGCGCTGCGGCTTTCGACCTGCGGCGCTTTCGACCTGCGGCGGCTTTC 302
Db      285  CCGACGCGCTGCGAGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTC 344
Qy      303  TTCTTGTGCTGCGAGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAGCGG 362
Db      345  TACCTGCGCGCTGAGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAGCGG 404
Qy      363  GTCTTGTGCTGAGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAGCGG 422
Db      405  GTCTTGTGCTGAGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAGCGG 464
Qy      423  TTCCTGACGAGCAAGTGGGAGTCCAGCAAGCGGAGGAGGAGGAGGAGGAGG 476
Db      465  TACCTGCGCGCTGAGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAGCGG 524
Qy      477  GACTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 536
Db      525  GAGCGAGCGCGGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 584
Qy      537  GCGTCCGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAG 564
Db      585  GCGAGCGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAGCGGCTTTCGAG 612

RESULT 11
US-08-700-637-12
; Sequence 12, Application US/08700637
; Patent No 5854413
; GENERAL INFORMATION:
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murry, Susan G.
; APPLICANT: Murry, Lynn E.
; TITLE OF INVENTION: NOVEL SYNAPTOGYRIN HOMOLOG FROM COLON
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/700,637
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Luther, Barbara U.
; REGISTRATION NUMBER: 33,954
; REFERENCE/DOCKET NUMBER: PF-0065 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-852-0195
; TELEFAX: 415-852-0195
; INFORMATION FOR SEQ ID NO: 12:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 339 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: LUNGA5T01
; CLONE: 868416
US-08-700-637-12

Query Match      14.1% Score 213; DB 2; Length 339;
Best Local Similarity 95.4%; Pred. No. 7,7e-41;
Matches 228; Conservative 0; Mismatches 9; Indels 2; Gaps 1;

Qy      47  CGACATGAGAGCGGCGCTTACGCGCGCGGCGGCGGCGGCGGCGGCGGCGG 106
Db      1  CGACATGAGAGCGGCGCTTACGCGCGCGGCGGCGGCGGCGGCGGCGGCGG 60
Qy      107  CTTCCTGAGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 166
Db      61  NTTCCTGAGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 120
Qy      167  GTTCTCTGATCTATGCTGAGGCGCTACGCAATGCGGCGGCGGCGGCGGCGG 226
Db      121  GTTCTCTGATCTATGCTGAGGCGCTACGCAATGCGGCGGCGGCGGCGGCGG 180
Qy      227  CGTGTTCACCGGCAAGGAGTGGCTGCGGCGGCGGCGGCGGCGGCGGCGGCG 285
Db      181  CGTGTTCACCGGCAAGGAGTGGCTGCGGCGGCGGCGGCGGCGGCGGCGGCG 237

RESULT 12
US-08-700-637-9
; Sequence 9, Application US/08700637
; Patent No 5854413
; GENERAL INFORMATION:
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murry, Susan G.
; APPLICANT: Murry, Lynn E.
; TITLE OF INVENTION: NOVEL SYNAPTOGYRIN HOMOLOG FROM COLON
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/700,637
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Luther, Barbara U.
; REGISTRATION NUMBER: 33,954
; REFERENCE/DOCKET NUMBER: PF-0065 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-852-0195
; TELEFAX: 415-852-0195
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 220 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: SYNORAT03

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QY 319 CGATATTCGCCGATGAGAGGCGCATGACCGGCAAGTACTGTTCATTGTGACCTGG 378
Db 332 TGTACTTCCCGCATGAGAGGCGCATGACCGGCAAGTACTGTTCATTGTGACCTGG 391
QY 379 TCTTTCAGCTCTCTGACCTCTCTGATTTGTTGTTTCTCTCTCTCAACCAAGT 438
Db 392 GTGTCTGGGCTTCTGAGCTTCTCTGTTCTGTTGAGATTCTGTACTGTGCGCAACAGT 451
QY 439 GGGAGATCAACCAACCGAAGAC-----GTGCTGTGTGGGGGCGGACTCTGTAGAAGGAG 492
Db 452 GCGAGGCTCCCAAGGCGCAACCGCACTGAACGAAGGAGGAGGAGCGCCGAGCG 511
QY 493 CCATCAGCTTCAAGCTTCTTTCATCTTCTCTGAGGTTGTTGCTGAGCTCTGAGCTTAC 552
Db 512 CCATGAGCTTCTCTTCTTCTTCTTCTTCACTTCACTGAGACCTGAGCGGCTGAGCTG 571
QY 553 AGCGCTCAAG 564
Db 572 GGAGATTCAAG 583

RESULT 15

US-09-620-312D-318
Sequence 318, Application US/09620312D
Patent No. 6569662
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Chen, Rui-hong
APPLICANT: Zhao, Qing A.
APPLICANT: Wehrman, Tom
APPLICANT: Xue, Aidong J.
APPLICANT: Yang, Yonghong
APPLICANT: Wang, Jian-Rui
APPLICANT: Ma, Yungqing
APPLICANT: Wang, Duntui
APPLICANT: Wang, Zhiwei
APPLICANT: John Tillinghast
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: No. 6569662el Nucleic Acids and
TITLE OF INVENTION: Polypeptides
FILE REFERENCE: 784CIP28
CURRENT APPLICATION NUMBER: US/09/620,312D
CURRENT FILING DATE: 2000-07-19
PRIOR APPLICATION NUMBER: 09/552,317
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: 09/488,725
PRIOR FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 1105
SOFTWARE: pt_genes Version 1.0
SEQ ID NO 318
LENGTH: 842
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (61)..(609)
US-09-620-312D-318

Query Match 11.5%; Score 174; DB 4; Length 842;

Best Local Similarity 64.7%; Pred. No. 1,3e-31;
Matches 277; Conservative 0; Mismatches 145; Indels 6; Gaps 1;

QY 143 GTGCTTGCTCTTCCGCTTGATGCTGTTCTCTGCACTTANGGTGAGGGCTACAGCAATGC 202
Db 126 GTGCTTGCTCTTCTCCATAGGTGTTGCTGCTCCATGCAAGAGGGCTACCTCAACAG 185
QY 203 CCAAGAGCTTAAGAGATGTACTGCTTCAACCGCAAGAGATGCTGCGCTATAG 262

Db 186 CCGCTCCGAGGGGAGAGATTGTGATCTACACCGCAACCCCAAGGCTGTGACTATAG 245
QY 263 CAGTCCATCGGGGTGTGAGCTTCTGCTCGGCTCGGCTTCTTGTGTGAGCGCTA 322
Db 246 CGTGGCGGTGGCGGTGCTGCTGCTTCTCACTGCTGTGACTGTGAGCGCTGAGCTA 305
QY 323 TTTCCCGAGATCAGCAAGCGCACTGACCGGAAGTACTGTCAATGAGTACCTGCTT 382
Db 306 CTTCCCGAGATCAGCAAGCGCTGAGCGCAAGAAACCTGCTGTCCGACATGAGT 365
QY 383 CTGAGCTCTGTGACCTTCTGTGAGTTGTTGTTTCTTCTTCAACCAACGAGTGGC 442
Db 366 CTGGGCTTCTGAGGCTTCTCTGAGTTGTTGTTTCTTCACTGAGCAACGAGTGGCA 425
QY 443 AGTACCAACCGGAAGAC-----GTGCTGTGTGGGGCGGACTGTGAGGGAGAGCAT 496
Db 426 GGTCTCCAGGCCCAAGGCAACCACTGAACGAAGGAGAGCGAGCCGAGCGGCGCAT 485
QY 497 CACCTTCAAGCTTCTTTCATCTTCTCTGAGGTTGTTGTTTCTTCAACCAACGAGTGGC 556
Db 486 CGCTTCTCTTCTTCTCTCATCTTCACTGAGGCTGACCGCAGGCTTGGCCGTGCGGAG 545
QY 557 CTACAGG 564
Db 546 ATTCAAG 553

Search completed: April 8, 2004, 08:56:17
Job time : 150 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 7, 2004, 11:56:24 ; Search time 42 Seconds
(without alignments)
1400.711 Million cell updates/sec

Title: US-10-020-445A-162

Perfect score: 1191

Sequence: 1 MESSAGYAGAXAGSFDLRRF.....QPFTQNAETEGYQPPVY 224

Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 1071772 segs, 26263353 residues

Total number of hits satisfying chosen parameters: 1071772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1191	100.0	224	9 US-09-978-295A-162	Sequence 162, App
2	1191	100.0	224	9 US-09-978-697-162	Sequence 162, App
3	1191	100.0	224	9 US-09-978-192A-162	Sequence 162, App
4	1191	100.0	224	9 US-09-999-832A-162	Sequence 162, App
5	1191	100.0	224	10 US-09-978-189-162	Sequence 162, App
6	1191	100.0	224	10 US-09-978-608A-162	Sequence 162, App
7	1191	100.0	224	10 US-09-978-585A-162	Sequence 162, App
8	1191	100.0	224	10 US-09-978-191A-162	Sequence 162, App
9	1191	100.0	224	10 US-09-978-403A-162	Sequence 162, App
10	1191	100.0	224	10 US-09-978-564A-162	Sequence 162, App
11	1191	100.0	224	10 US-09-999-833A-162	Sequence 162, App
12	1191	100.0	224	10 US-09-981-915A-162	Sequence 162, App
13	1191	100.0	224	10 US-09-978-824-162	Sequence 162, App
14	1191	100.0	224	10 US-09-918-585A-162	Sequence 162, App
15	1191	100.0	224	10 US-09-978-423A-162	Sequence 162, App

16	1191	100.0	224	10 US-09-978-193A-162	Sequence 162, App
17	1191	100.0	224	10 US-09-999-830A-162	Sequence 162, App
18	1191	100.0	224	10 US-09-978-757A-162	Sequence 162, App
19	1191	100.0	224	10 US-09-978-187B-162	Sequence 162, App
20	1191	100.0	224	10 US-09-978-643A-162	Sequence 162, App
21	1191	100.0	224	10 US-09-978-375A-162	Sequence 162, App
22	1191	100.0	224	10 US-09-978-298A-162	Sequence 162, App
23	1191	100.0	224	10 US-09-978-188A-162	Sequence 162, App
24	1191	100.0	224	10 US-09-978-681A-162	Sequence 162, App
25	1191	100.0	224	10 US-09-978-194A-162	Sequence 162, App
26	1191	100.0	224	10 US-09-999-829A-162	Sequence 162, App
27	1191	100.0	224	10 US-09-978-299A-162	Sequence 162, App
28	1191	100.0	224	10 US-09-978-544A-162	Sequence 162, App
29	1191	100.0	224	10 US-09-978-665A-162	Sequence 162, App
30	1191	100.0	224	10 US-09-978-802A-162	Sequence 162, App
31	1191	100.0	224	10 US-10-164-749A-162	Sequence 162, App
32	1191	100.0	224	12 US-09-999-831A-162	Sequence 162, App
33	1191	100.0	224	14 US-10-017-981A-162	Sequence 162, App
34	1191	100.0	224	14 US-10-167-749-162	Sequence 162, App
35	1191	100.0	224	14 US-10-013-921A-162	Sequence 162, App
36	1191	100.0	224	14 US-10-013-929A-162	Sequence 162, App
37	1191	100.0	224	14 US-10-016-177A-162	Sequence 162, App
38	1191	100.0	224	14 US-10-166-709A-162	Sequence 162, App
39	1191	100.0	224	14 US-10-143-031A-162	Sequence 162, App
40	1191	100.0	224	14 US-10-143-030A-162	Sequence 162, App
41	1191	100.0	224	14 US-10-002-967A-162	Sequence 162, App
42	1191	100.0	224	14 US-10-017-083A-162	Sequence 162, App
43	1191	100.0	224	14 US-10-145-128A-162	Sequence 162, App
44	1191	100.0	224	14 US-10-017-191A-162	Sequence 162, App
45	1191	100.0	224	14 US-10-143-028A-162	Sequence 162, App

ALIGNMENTS

RESULT 1
US-09-978-295A-162
Sequence 162, Application US/09978295A
Patent No. US20020156006A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Bostein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Klavins, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C11
CURRENT APPLICATION NUMBER: US/09/978, 295A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585

Fri Apr 9 09:24:00 2004

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PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/0812030
PRIOR FILING DATE:	1998-04-09

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Query Match      100.0%; Score 1191; DB 9; Length 224;
Best Local Similarity 100.0%; Pred. No. 8,9e-123;
Matches 224; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
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Sequence 162, Application US/09978697
Patent No. US20020169284A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James J.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

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TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C27
CURRENT APPLICATION NUMBER: US/09/978,697
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Query Match 100.0%; Score 1191; DB 9; Length 224;
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RESULT 3
 US-09-978-192A-162
 Sequence 162, Application US/09978192A
 Patent No. US20020177553A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi
 APPLICANT: Baker Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnovers, Luc
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleon
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
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 APPLICANT: Goddard, Paul J.
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